





21 APR 1911.

The Journal

OF THE

BOARD OF AGRICULTURE.

GENERAL INDEX.

VOLUMES XI.—XVII.

April, 1904, to March, 1911.



LONDON :

PRINTED FOR HIS MAJESTY'S STATIONERY OFFICE,
By R. CLAY & SONS, LTD., 7 & 8 BREAD STREET HILL, QUEEN VICTORIA STREET, E.C.,
AND PUBLISHED BY THE BOARD OF AGRICULTURE AND FISHERIES.

PRICE FOURPENCE.

POST FREE.

The Journal

[21 APR 1911.]

OF THE

BOARD OF AGRICULTURE.

GENERAL INDEX.

VOLUMES XI.—XVII.

April, 1904, to March, 1911.



LONDON :

PRINTED FOR HIS MAJESTY'S STATIONERY OFFICE,

By R. CLAY & SONS, LTD., 7 & 8 BREAD STREET HILL, QUEEN VICTORIA STREET, E.C.,
AND PUBLISHED BY THE BOARD OF AGRICULTURE AND FISHERIES.

PRICE FOURPENCE.

POST FREE.

THIS General Index covers the seven volumes of the "*Journal of the Board of Agriculture*," which have been issued since the JOURNAL became a monthly publication, together with the following five SUPPLEMENTS:

- No. 1.—REPORT ON AGRICULTURAL EDUCATION IN
THE UNITED STATES ... JAN., 1908
- No. 2.—THE FOOD OF SOME BRITISH BIRDS ... DEC., 1908
- No. 3.—REPORTS ON THE WORK OF THE INTER-
NATIONAL AGRICULTURAL INSTITUTE ... APRIL, 1910
- No. 4.—WHEAT: PAPERS READ AT A MEETING OF
THE BRITISH ASSOCIATION AT WINNIPEG,
1909 ... JUNE, 1910
- No. 5.—INFLUENCE ON THE PRODUCTION OF
MUTTON OF MANURES APPLIED TO
PASTURE ... JAN., 1911

A similar General Index covering the first ten volumes of the JOURNAL has been issued, and copies may be obtained from the Offices of the Board, price 1s. each, post free.

BOARD OF AGRICULTURE AND FISHERIES,
WHITEHALL PLACE, S.W.
April, 1911.

THE
JOURNAL
OF THE
BOARD OF AGRICULTURE.

GENERAL INDEX.

(April, 1904, to March, 1911.)

NOTE—Subjects falling under the following headings are indexed, as a rule, under those headings only, viz., “Insects,” “Fungi,” “Congresses,” “Exhibitions,” “Machinery,” “Import and Export Regulations.”

Articles or reports on subjects which appear in the *Journal* each month are not separately indexed, viz., Notes on the Weather; Notes on Agricultural Labour in England; Notes on Crop Prospects; Reviews of the Corn Markets, the Live and Dead Meat Trade, and the Provision Trade; Prices of Agricultural Produce; Outbreaks under Diseases of Animals Acts; Lists of Additions to the Board's Library; and Selected Contents of Periodicals.

Abattoirs : Committee, Report	...	...	...	...	...	XI., 298
Aberdeen and North of Scotland College of Agriculture :						
Instruction in Forestry	...	...	...	...	...	XVI., 980
Tests for farmers' milk	...	...	...	...	...	XII., 47
Aberystwyth, University College of Wales : Agricultural education	...	...	...	...	...	XIII., 651
Abortion, epizootic.	See <i>Diseases of Live Stock</i> .					
Accidents caused by farm machinery, precautions against	...	...	...	...	...	XIII., 225
Accounts, farm	...	...	...	XIII., 679 ;	XV., 401 ;	XVI., 453
Acetylene residue, application to land as manure...	...	...	...	...	...	XV., 875
Actinomycosis.	See <i>Diseases of Live Stock</i> .					
Adulteration : Analyses of samples at the Government Laboratory	...	XI., 430 ;	XIII., 306 ;	XIV., 426 ;	XV., 385 ;	XVI., 502
Butter trade : report of Select Committee on	...	...	...	...	...	XIII., 300
Cider	...	...	...	...	...	XVI., 486
Copper sulphate	...	...	...	...	XII., 542 ;	XVI., 477
Cotton seed cake...	...	...	...	...	...	XI., 289
Cream	...	...	...	...	...	XVI., 669
Decorticated cotton cake, proportion of husk	...	...	...	...	...	XV., 366
Feeding stuffs, prosecutions for adulterated	...	...	...	...	...	XIII., 53
Fertilisers and Feeding Stuff's Act	...	XI., 438 ;	XIII., 462, 504, 604, 607, 612, 671 ;	XIV., 116, 371, 691 ;	XV., 631, 779 ;	XVI., 668
Food and Drugs Act, report of Board of Agriculture	...	XI., 429 ;	XII., 440 ;	XIII., 499 ;	XIV., 623 ;	XV., 444 ;
Milk Contracts	...	...	...	...	...	XII., 371
Milk, effect of watery food given to cows	...	...	...	...	...	XVII., 910

Adulteration (*continued*)—

Milk from newly-calved cows	XIII., 249
Mixtures of butter and milk, circulars	XV., 146, 711
Oilcakes	XII., 230
Preservatives in milk	XIII., 297
Prosecutions under Food and Drugs Act, statistics	XI., 180
Report on foreign legislation	XIV., 366
Sale of milk regulations, circular	XII., 45
Seeds	XI., 418 ; XII., 39, 224 ; XIII., 7, 82, 152, 331 ; XVI., 180, 193, 325
<i>Argentina</i> , butter regulations	XII., 611
<i>Belgium</i> , butter regulations	XII., 111
<i>Denmark</i> , margarine law	XII., 434
<i>France</i> , law	XII., 373
<i>Holland</i> : new Butter Bill	XIII., 687
Butter legislation	XVI., 942
<i>New Zealand</i> , butter law	XV., 218
<i>Queensland</i> , dairy legislation	XII., 609
<i>Sweden</i> , margarine law	XIII., 170
<i>United States</i> , food	XI., 31, 431

Afforestation. See *Forestry*.Africa (see also *Transvaal*, etc.) : British East, live stock in ... XI., 737 ;
XVI., 130South. See *South Africa*.

Agents, commercial, abroad	XI., 53
Agricultural and Horticultural Association	XIV., 117
Agricultural Associations, Directory of	XVII., 670
Agricultural Correspondents... ..	XI., 566
Agricultural Co-operative Federation	XII., 694 ; XIII., 628 ; XV., 924
Agricultural Holdings Act : Farm records in Norfolk	XIII., 356
Arbitration in Scotland	XIV., 141
Agricultural Holdings Act, 1908	XVI., 113
Agricultural Holdings Rules... ..	XV., 780, 950
Agricultural Organisation Society	XI., 117 ; XII., 154, 310, 694 ; XIII., 628 ; XV., 283, 383, 447, 922 ; XVI., 354 ; XVII., 394
Agricultural Organisation Society, Irish	XI., 80
Agricultural Organisation Society, Scottish	XIII., 629 ; XV., 382 ; XVI., 816 ; XVII., 138, 222

Agricultural Statistics :

Acreage and live stock, annual report 1903, XI., 246 ; 1904, XI., 504 ; XII., 243 ; 1905, XIII., 309 ; 1906, XIII., 627 ; 1908, XVI., 48 ; 1909, XVII., 54	
Preliminary statement ... 1904, XI., 338 ; 1905, XII., 335 ; 1906, XIII., 344 ; 1907, XIV., 344 ; 1908, XV., 423 ; 1909, XVI., 571 ; 1910, XVII., 590, 649	
Colonial and foreign statistics, annual report 1903, XI., 246 ; 1904, XII., 243 ; 1905, XIII., 309 ; 1906, XIV., 632 ; 1908, XVI., 929 ; 1909, XVII., 1028	
Prices and supplies of corn, live stock, etc., annual report 1903, XI., 246 ; 1904, XII., 243 ; 1905, XIII., 309 ; 1906, XIV., 375 ; 1909, XVII., 498	
Produce of crops, annual report ... 1903, XI., 246 ; 1904, XII., 243 ; 1905, XIII., 309 ; 1906, XIV., 56 ; 1907, XV., 62 ; 1908, XVI., 48 ; 1909, XVII., 57	
Preliminary statement ... 1904, XI., 519 ; 1905, XII., 513 ; 1906, XIII., 538 ; 1907, XIV., 527 ; 1908, XV., 616, 660, 699 ; 1909, XVI., 731 ; 1910, XVII., 681, 770	

- Agrostemma Githago*, Corn Cockle XVII., 38
- Agrostis vulgaris*, Black twitch XVI., 279
- Alcohol Committee, Industrial XII., 105
- Alcohol, preparation from potatoes in Germany ... XI., 29, 733 ; XII., 106
- Alcoholic fermentation in cider XIII., 241
- Alfalfa. See *Lucerne*.
- Algæ, injury to watercress beds by... .. XVII., 988
- Alice Holt Woods, forestry education XII., 358 ; XVI., 981
- Allotments. See *Small Holdings*.
- Alsace. See *Germany*.
- Alsike and white clover seed and their impurities XIII., 7
- American gooseberry mildew. See *Fungi*.
- Ammonia, sulphate of. See *Manures*.
- Amos, Arthur : Hop cultivation XVI., 881
- Picking, packing and drying hops XVII., 89
- Amos, H : Fruit crop in the Wisbech district XVII., 519
- Potato trade of Lincolnshire in 1908-9 XVI., 157
- Anderson, Robert : The improvement of woodland XV., 502
- Animals : Prevention of cruelty in destruction of XVI., 930
- Anthrax. See *Diseases of Live Stock*.
- Anthriscus sylvestris* (cow parsley) XIV., 183
- Ants. See *Insects*.
- Apoplexy, parturient. See *Diseases of Live Stock*.
- Apples (see also *Cider, Fruit*) : Apple culture XI., 581
- Apple growing, competition with other countries XV., 487
- Apple juice in Germany XIV., 760
- Apple trees, effect of grass on XII., 558 ; XIV., 42 ; XV., 123, 959 ; XVI., 939
- Bush apples for cider XV., 534
- Cattle feeding XI., 549 ; XII., 231
- Cold storage XI., 174
- Cost of spraying XVI., 496
- Evaporating or drying XII., 756
- Experiments with trees XII., 489, 523, 557
- Grafting XII., 1 ; XVI., 1023
- Green coloration in XI., 433
- Habits of growth... .. XVI., 198
- Leaf scald XV., 603
- Manuring XI., 587, 626 ; XII., 171, 436, 559 ; XVII., 757
- National Fruit and Cider Institute, description of XII., 321, 523
- Packing and grading XI., 589
- Planting XI., 449, 581
- Pollination, cross and self (see also *Pollination*) XVII., 587, 974
- Preservation of unfermented apple juice XVI., 68
- Pruning XI., 522, 585 ; XII., 490 ; XV., 959 ; XVI., 199, 1024
- Spraying XI., 588, 641 ; XII., 661 ; XIII., 623, 715 ; XVI., 496
- Varieties XI., 454, 584 ; XII., 526
- For different districts... .. XV., 52
- Norway, demand for apples XIV., 502
- United States, apple growing in New York State XII., 557
- Competition with English apples XV., 491
- Arbitration, agricultural, in Scotland XIV., 141
- Argentina : Agriculture in XIV., 733 ; XV., 586 ; XVI., 300
- Agricultural resources of XVI., 705
- Buenos Aires agricultural exhibition XVI., 220, 330, 413, 712, 765, 944 ; XVII., 129

Argentina (*continued*)—

- Frozen meat, importation from into Austria... .. XVII., 878
 Live stock, number of XV., 850
 Importation of pedigree live stock XVII., 130, 413
 Machinery, agricultural XII., 249
 Quebracho wood XI., 562; XII., 568
 Wheat growing XI., 342
 Wheat, imports from XI., 539; XIII., 349
 Wool production XVII., 766
- Armstrong College, Newcastle-on-Tyne : Agricultural education XIII., 648
 Agricultural Students Association XI., 306
 Forestry instruction at XI., 6, 751; XIII., 180, 647; XVI., 973
- Army horses, farming out of XVI., 321
 Types suitable for XVI., 239, 992
- Army remounts XV., 321, 325
- Arthritis of lambs. See *Diseases of Live Stock*.
- Artificial fertilisers. See *Manures*.
- Asia Minor : Agriculture in Kurdistan XV., 219
- Asparagus : Artificial manures for XIII., 683
 Cultivation in Evesham XVII., 832
France, method of growing XIII., 493
Germany, cultivation in Brunswick XIII., 154
- Aspatia Agricultural College XIII., 657
- Aspatia Agricultural Co-operative Society XIII., 755; XV., 921
- Australasia (see also *New Zealand, New South Wales, &c.*) :
 Wheat harvest, 1902-3 XI., 149
 Wheat imports from XI., 539; XII., 591
- Australia : Dairy legislation XIV., 92
 Fowls, export of XI., 746
 Hop legislation XVI., 1034
- Austria : Agricultural experiment stations XV., 130
 Credit Banks XV., 867
 Hop-marking Regulations XVI., 54
 Importation of frozen meat from South America XVII., 678
 Moorland reclamation XIV., 146; XVII., 207
 Persons engaged in agriculture XIV., 433
 Potash industry XVII., 679
- Azores : Live stock XV., 65
- Babcock method of milk-testing XI., 370
- Baby beef. See *Cattle*.
- Bacon (see also *Pigs*) : Co-operative curing XVI., 99
 Factories, number, output, &c. XVII., 948
 Market in Germany XIII., 376
 Production and consumption XI., 233
Brazil, importation XIV., 631
Denmark, co-operative curing XI., 120
 Cost of transport from XI., 96
Russia, export to Great Britain XVII., 945
Sweden, co-operative curing XVII., 590
- Bancroft, C. K. : The brown rot of the tomato XVI., 1012
- Bangor, University College of North Wales : Agricultural
 education XIII., 650
 Forestry education XI., 5, 751; XVI., 971
- Banks, Agricultural Credit. See *Credit, Agricultural*.
- Bare fallows XIII., 1

- Barker, B.T.P. : Cider orchards ... XIV., 577
 National Fruit and Cider Institute and its work ... XII., 321
 New market for English cider ... XII., 577
- Barley : Breeding experiments ... XV., 460
 Brewing barley, cultivation of ... XIV., 534
 Continuous growth on same land, experiments ... XV., 459 ; XVI., 150 ; XVII., 59, 63, 489
 Manuring ... XI., 39, 104, 211 ; XVI., 407 ; XVII., 62, 491
 Pig-feeding ... XVI., 726
 English and foreign barley for ... XVII., 1014
 Selling, method in the east of England ... XIV., 311
 Sowing, experiments in ... XI., 38, 150
 Straw for ensilage ... XVI., 298
 Summary of experiments ... XV., 459 ; XVI., 67, 150, 490 ; XVII., 59, 489
 Threshing ... XII., 215
 Variety trials ... XI., 39 ; XV., 459, 460 ; XVI., 67, 490 ; XVII., 61, 489
 California, barley growing ... XVI., 328
 France : Importation from Tunis ... XI., 148
 Improvement of barley ... XII., 733
 Turkey : Prohibition of export from ... XIV., 632
- Basic slag. See *Manures*.
- Bavaria. See *Germany*.
- Beans : Cattle poisoning by Java beans XII., 742 ; XIII., 52 ; XIV., 722
 Change of seed, experiment ... XV., 705
 Cultivation of field beans ... XVII., 631
 Disease of ... XVI., 474
 Inoculation ... XV., 705
 Manuring ... XI., 104 ; XV., 705
Phaseolus lunatus (Java bean), poisonous properties of ... XIV., 722
 Soy beans ... XVI., 128, 229, 735, 860 ; XVII., 67, 410, 502, 688
 Feeding trials ... XVI., 735, 940 ; XVII., 752, 927
 Summary of experiments ... XV., 705
- Bear, W. E. : Birds and fruit growers ... XIII., 665
 Competition in apple growing ... XV., 487
 Habits of growth in apple-trees ... XVI., 198
 Planting fruit trees and bushes ... XI., 449
 Problems in potato growing ... XIV., 65
 Spraying fruit trees and bushes ... XI., 641
 Spraying machines ... XII., 8
 Spraying mixtures ... XII., 660
 Training and pruning fruit trees and bushes ... XI., 522
- Bedford Agricultural Institute, Ridgmont, education at ... XIII., 653
- Beef (see also *Cattle*) : Cost of producing in winter ... XV., 253
 Production and consumption ... XI., 233
- Bees : Action in pollination ... XVII., 974
 Advice to beginners in bee-keeping ... XII., 78
 Bee Pest Prevention (Ireland) Act ... XV., 456 ; XVI., 321
 British bee-keepers' insurance scheme ... XVI., 485
 Diseased honeycombs ... XIV., 622
 Honey, preparation for market ... XI., 721
 Humble bee and pollination of red clover ... XV., 753
 "Isle of Wight" disease ... XIV., 115, 129 ; XV., 809
 " " " in Herts ... XV., 62
 " " " in Bucks ... XVI., 323
Megachile (Solitary bee) ... XIV., 118
 United States, laws as to foul brood ... XV., 456
- Beet. See *Sugar Beet*.

- Belgian Hare Rabbit XVII., 983
- Belgium : Agriculture, progress in... .. XVI., 852
- Breeding of live stock XI., 21
- Butter legislation XI., 494 ; XII., 111
- Brussels Exhibition, 1910 ... XVI., 55, 502, 674, 766 ; XVII., 127, 661
- Brussels Forestry Congress, 1910 ... XVI., 676 ; XVII., 326, 636
- Calves, fattening... .. XIII., 238
- Chicory industry XI., 268
- Cowsheds, competitions for well-managed XIII., 165
- Credit, agricultural XII., 279
- Department of Agriculture, organisation XI., 18 ; XV., 532
- Exportation of horses from Great Britain XVII., 149
- Hop legislation... .. XVI., 1033
- Insurance of live stock XV., 37
- Osier cultivation XIV., 47
- Poultry industry... .. XVI., 1017
- State assistance to XIV., 631
- School of Agricultural Mechanics XIII., 630
- Tuberculosis, suppression of XV., 499
- Waste lands, planting with trees XV., 862
- Beneficial insects, introduction into United States XII., 623
- Benson, John : Brie, Pont l'Évêque, and other soft cheeses ... XVII., 449
- Camembert cheese XVII., 371
- Cheese making for small holders XVI., 89
- Bent Grass (*Agrostis vulgaris*) XVI., 279
- Bermuda, destruction of Fruit Fly in XII., 689 ; XIV., 630
- Bewick, Thomas : Fences and hedges XII., 65
- Biffen, R. H. : Rust in wheat XV., 241
- Bilberries, marketing of XV., 519
- Birds : Blackbird XIII., 665, 719
- Black-headed gull, food habits of XIV., 410
- Blue tit (*Parus cæruleus*) XI., 500
- Crows and rooks XI., 630
- Dressing seed as a protection against... .. XI., 544 ; XIII., 228 ; XVI., 759, 925
- Food of birds. (See *Journal Supplement*, December, 1908.)
- Food of, notes on the XIV., 402
- Fruit crops and birds XIII., 504, 665
- Green woodpecker XI., 693
- Lapwing or plover, prevalence of XVI., 747
- Prevention of bud picking by XI., 643 ; XIII., 667
- Prevention of cruelty in destroying XVI., 932
- Protection of fruit bushes against XII., 629, 664 ; XIII., 667
- Rooks, damage by XIII., 101, 227
- Food of XI., 630 ; XIII., 413 ; XVII., 133
- Sparrow clubs XIV., 182
- Spangle galls eaten by XV., 141
- Starlings, destruction of insects by XII., 163
- Useful and injurious to agriculture, list of birds XIII., 434
- Wild Birds Protection Acts XIII., 665
- Wood pigeons, food habits of XIV., 686
- Germany*, protection of birds XV., 293
- Birkeland-Eyde process for the manufacture of nitrate of lime
 (see also *Manures*) XII., 598
- Bisulphide of carbon as an insecticide ... XII., 104, 162, 695 ; XVI., 936
- Blackberries, marketing of XV., 518
- Blackbird XIII., 665, 719

- Blackheaded gull, food habits of XIV., 410
- Black scab of potatoes. See *Fungi, Wart Disease.*
- Blackshaw, J. F. : Cleanliness in dairy management XII., 136
- Black twitch (*Agrostis vulgaris*) XVI., 279
- Bluestone. See *Copper sulphate.*
- Blue tit (*Parus cœruleus*) XI., 500
- Blood, dried, as manure XIII., 67
- Board of Education : Memorandum of Agreement with Board
 of Agriculture XVI., 529
 Memorandum on principles of rural education XVII., 942
 Rural subjects in elementary schools XIV., 749
 Suggestions on rural education... .. XIV., 751
- Board of Trade : Census of production XVII., 769, 948
 Commercial agents abroad, list of XI., 53
 Co-operative Cattle Insurance Societies, return XIV., 112
 Directory of Industrial Associations XIV., 310
 Railway Conference XVI., 304
- Bohemia. See *Austria.*
- Bolam, W. J. : Improvement of stock in Northumberland XI., 356
- "Bolting" in turnips, carrots, etc. XIV., 630
- Bone Meal. See *Manures.*
- Bones as food for poultry XIII., 458
- Book-keeping, farm XV., 401 ; XVI., 453
 Importance of farm accounts XIII., 683
- Bordeaux mixture. See *Spraying.*
- Boundary fences, legal liability to repair XIV., 607
- Bounties to agriculture : *France* XI., 108, 564 ; XVI., 227
 Germany, agricultural produce... .. XI., 100
- Bowling greens, grasses for XIV., 759
- Bracken : Composition of XV., 483
 Eradication of XIII., 378 ; XV., 844
 Use as litter XV., 481
- Bradley, E. : Fruit bottling XVII., 194
- Brandsby Dairy and Trading Association XI., 118
- Braxy and louping-ill. See *Diseases of Live Stock.*
- Brazil : Exportation of fruit and meat XVII., 242
 Importation of hams and bacon XIV., 631
 " " live stock XV., 50, 755
 Live stock in XVI., 39, 485, 500, 677, 1016 ; XVII., 766
 Model farms XVI., 38
 Pedigree stock, possible demand for XIV., 303, 738
- Bread : Price of wheat and bread XVI., 230
- Breeding. See *Horses, Cattle, Wheat, etc.*
- Brewers' grains, effect of feeding dairy cattle on XIV., 87
- British Bee-keepers' Association : Insurance scheme XVI., 485
- British Dairy Institute, Reading, courses at XIII., 655
- Brittany, exports of agricultural produce from XIV., 630 ; XV., 534
- Broom-rape (*Orobanche*) XV., 176
- Brown, E. : Artificial incubation XII., 87 ; XIII., 201
 Cost of feeding chickens XIV., 611
 " rearing ducklings XV., 664
 Day-old chickens XI., 590

- Brown, E. (*continued*)—
- Dry feeding of chickens XI., 683
 - Duck raising XII., 462
 - Eggs *versus* table poultry XIII., 521
 - Growth of chickens and cost of rearing XII., 257
 - Housing of poultry on farms XI., 9
 - Housing and feeding of poultry XV., 101
 - Milk chickens XVI., 283
 - Notes on experiments with poultry XVI., 635
 - Poultry Industry in Belgium XVI., 1017
 - " " America XIII., 490
 - Poultry manure, value of XIII., 719
 - Renting of farm land by poultry-keepers XI., 404
 - Selection of races of fowls for table poultry XIV., 268
 - Turkey raising XIII., 559
- Brown, W. : Cost of feeding chickens XIV., 611
- " rearing ducklings XV., 664
 - Housing and feeding of poultry XV., 101
 - Poultry manure, value of XIII., 719
- Bruce, A. B. : Mendelism, and its application to stockbreeding ... XVII., 284
- Brussels Exhibition, 1910 : Advertisement of British breeds of
- live stock XVI., 674
 - Classification of the Exhibition XVI., 55
 - Dates of shows at XVI., 502
 - Forestry congress XVI., 676 ; XVII., 326, 636
 - Horticultural congress XVI., 677
 - " shows XVI., 766
 - Live stock exhibit, report on XVII., 661
 - Official exhibits XVII., 127
- Buckingham Agricultural Trading Association XIII., 630
- Buenos Aires Agricultural Exhibition, 1910 : Advantage of
- exhibiting XVI., 712
 - Arrangements for British section XVI., 765, 944 ; XVII., 129
 - Programme XVI., 220, 330
- Bulb growing XV., 897
- Bulb trade of Holland XVI., 145
- Bulbs, market in South Africa XIII., 121
- Burma, demand for tinned milk XII., 696
- Burton, J. H. : Butter tests with Shorthorn and Jersey cows ... XIII., 193
- Butter (see also *Dairying*) : Adulteration XI., 429
- Analyses at the Government Laboratory XI., 430 ; XIII., 306 ; XIV., 426 ; XV., 385
 - Breeds of cattle, butter production of different XII., 483 ; XIII., 193
 - Butter and Margarine Act, 1907, circular XIV., 610
 - Canned, keeping quality of XI., 169
 - Cleanliness in making XII., 144
 - Competitions in Ireland XIII., 422
 - Composition, variation in XV., 955
 - Creamery systems of payment XIV., 741
 - Departmental committee on Irish butter trade XVI., 149
 - Factories in Great Britain, number in 1906 XIII., 424
 - Production, etc. XVII., 949
 - Farm butter-making XIII., 577
 - Fishy flavour XI., 235 ; XVI., 317
 - Flavour, influence of acidity of cream on XVI., 581
 - Mixed milk, production from XII., 485
 - Mixtures of butter and milk or cream, circular XV., 146, 711

Butter (*continued*)—

Pasteurized milk, production from	XVI., 758
Production and consumption	XI., 233
Select Committee on butter trade, report	XIII., 300
Tests	XII., 483
" with Shorthorn and Jersey cows	XIII., 193
Transport from Ireland	XI., 43
Water in	XI., 424
<i>Argentina</i> , regulations	XII., 611
<i>Belgium</i> , legislation	XI., 494
Regulations	XII., 111
<i>Denmark</i> , butter quotations	XI., 236
Marking	XIII., 110
<i>France</i> , legislation	XII., 373
<i>Germany</i> , butter testing competitions	XIII., 363
<i>Holland</i> , butter legislation	XIII., 687 ; XVI., 942
Type of churn used for butter making	XVII., 412
<i>New Zealand</i> , butter law	XV., 218
<i>Russia</i> , butter export from Finland	XVI., 768
Butter trade... ..	XVII., 1033
<i>Siberia</i> , exports	XII., 234 ; XIII., 632 ; XIV., 759
<i>Sweden</i> , butter control	XVII., 922
<i>United States</i> : Production	XI., 370
Standard	XI., 33
Buttercups in pastures	XIV., 182
Buttermilk for pig-feeding	XVI., 828
Byrne, C. L. : Poultry fattening	XIII., 73 ; XV., 180
Cabbages : Manuring experiments	XVI., 491 ; XVII., 666
Cake. See <i>Oilcake</i> .	
Calcium cyanamide (Lime nitrogen). See <i>Manures</i> .	
Calcium sulphide as an insecticide	XIII., 376
California. See <i>United States</i> .	
Calves. See <i>Cattle</i> .	
Cambridge and Isle of Ely Farmers' Supply Association	XV., 923
Cambridge University : Education, agricultural	XIII., 652
Extension of agricultural department... ..	XII., 182
Forestry instruction	XII., 564 ; XVI., 974
Surveyors' Institution scholarships	XI., 751 ; XII., 565 ; XIII., 180 ; XVII., 138
Canada : Agricultural education	XIII., 29 ; XIV., 117 ; XVII., 912
Cheese, cold-curing of	XIII., 427
Dry farming	XVII., 918
Experiments by farmers	XI., 613
Fruit Marks Act	XIV., 304
Hop legislation	XVI., 1034
Insect depredations in forests	XVII., 50
Lectures to farmers	XIII., 760
Live stock, number and value, 1910	XVII., 860, 1033
Manurial experiments	XI., 205
Meat inspection	XIV., 176
Poultry industry... ..	XIII., 490
Sale of seeds	XVII., 676
Seed control	XII., 630
Seed Growers' Association	XI., 281
Shows, judging at	XI., 164
Subsidies for cold-storage warehouses... ..	XV., 221
Tuberculin test	XI., 162

Canada (*continued*)—Wheat. See also *Journal Supplement*, No. 4, June, 1910.

Experiments with varieties	...	...	...	...	XI., 206
Imports from	...	...	...	...	XI., 536
Estimates of future production	...	...	...	...	XII., 345
Canals, Congress at St. Petersburg	...	...	...	...	XV., 62
Cape Colony : Agricultural credit bank	...	...	...	...	XIV., 689
Agriculture in	...	...	...	...	XVI., 744
Hop legislation	...	...	...	...	XVI., 1034
Inspection of nurseries	...	...	...	...	XII., 567
Lime and sulphur dip for sheep	...	...	...	...	XI., 423
Carbolic acid preparations, regulations	...	...	...	...	XVI., 149
Carbon bisulphide as an insecticide...	...	XII., 104, 162, 695 ;	...	...	XVI., 936
Carrots, pig-feeding with	...	...	...	...	XVI., 821
Cartage charges, inclusion in railway rates of	...	...	...	...	XI., 305
Cassava, poisonous properties of	...	...	...	...	XIV., 729
Catchment areas, afforestation of	...	...	XI., 468 ; XII., 614 ;	...	XVI., 265
Cattle (see also <i>Live Stock</i> , <i>Diseases of Live Stock</i> , <i>Dairying</i> , etc.):					
Apples for feeding	...	...	...	...	XI., 549 ; XII., 231
Baby beef...	...	...	...	...	XIV., 232 ; XVII., 177
Brewers' grains, feeding dairy cows with	...	...	...	...	XIV., 87
Breeding, science of	...	...	...	...	XVII., 284, 705
Butter production of different breeds	...	...	...	...	XII., 483 ; XIII., 193
Calves, fattening for veal	...	...	...	...	XIII., 238, 727 ; XIV., 399
Feeding, separated milk and fat substitutes	...	...	...	...	XIII., 238 ; XIV., 55
Feeding to produce early matured cattle	...	...	...	...	XIV., 232
Fresh air, effect on growth	...	...	...	...	XIV., 247
Railway rates for	...	...	...	...	XI., 293, 514
Rearing	...	...	...	...	XI., 39, 705 ; XVI., 662 ; XVII., 747
Cleanliness in dairy management	...	...	...	...	XII., 136
Condiments in food	...	...	...	...	XII., 367
Conveyance in horse boxes, charges	...	...	...	...	XI., 518
Cost of producing beef in winter	...	...	...	...	XV., 253
Cow-houses, construction	...	...	...	...	XVI., 533
Dairy cows, effect of keeping out at night in winter	...	...	...	...	XVII., 755
Dairy shorthorn, development of	...	...	...	...	XVII., 441
Feeding	...	...	XI., 289 ; XII., 23, 546 ; XV., 877 ; XVI., 660 ;	...	XVII., 752, 850, 925, 1011
Effect on milk and butter	...	XII., 167, 553 ; XV., 951 ; XVI., 155,	...	...	649 ; XVII., 910
For early maturity	...	...	...	...	XIV., 232 ; XVII., 177
Summer	...	...	...	...	XVI., 660
Handbook of British breeds of live stock	...	...	...	...	XVII., 130, 240, 663
Herring flour as cattle food	...	...	...	...	XVI., 769
Insurance. See <i>Insurance</i> .					
Muscular development of the jaw, effect on capacity for fattening	...	...	...	...	XI., 165
Newly-calved cows, milk of	...	...	...	...	XIII., 249 ; XIV., 520
Northumberland, improvement of stock in	...	...	...	...	XI., 356
Pasturage and stall-feeding, comparative effects on health...	...	...	...	...	XIV., 489
Poisoning by <i>Cupressus</i> , alleged	...	...	...	...	XII., 432
" " Java beans	...	...	XII., 742 ; XIII., 52 ; XIV., 722	...	
" " rhododendrons	...	...	...	...	XIV., 118
" " sheep-dip paste	...	...	...	...	XVII., 307
Rations for milch cows	...	...	...	...	XV., 934
Salford cattle market	...	...	...	...	XV., 788
" Score Card " for judging	...	...	...	...	XIV., 36
Secretion of milk	...	...	...	...	XIII., 218
Selection and milking of dairy cattle...	...	...	...	...	XIII., 449
Shorthorn and Jersey, butter tests with	...	...	...	...	XIII., 193

Cattle (*continued*)—

Sugar beet for feeding	XI., 580, 739
Summaries of experiments	XV., 877; XVI., 660; XVII., 752, 850, 925, 1011
Weighing (Markets and Fairs Returns Order)	XI., 695
World's stock of cattle	XVII., 1035
<i>Belgium</i> , breeding in	XI., 24
Calves, fattening	XIII., 238
<i>Brazil</i> , cattle raising	XVI., 500; XVII., 766
<i>Chili</i> , breeding stock	XII., 376
<i>Costa Rica</i> , importation of pedigree stock	XVI., 943
<i>Denmark</i> , breeding centres	XII., 549
Construction of cowsheds	XI., 146
System of breeding	XVI., 998
<i>Germany</i> , breeding	XII., 406
<i>Greece</i> , British pedigree stock in	XI., 165
<i>Ireland</i> , improvement scheme	XIII., 478
<i>Japan</i> , cattle rearing	XVII., 154
<i>Mexico</i> , raising	XVI., 414
<i>New South Wales</i> , Government stud bulls in	XI., 226
<i>Panama</i> , cattle raising	XVII., 764
<i>Rhodesia</i> , demand for cattle	XIII., 686
<i>Russia</i> , British breeding stock in	XI., 292
<i>Sweden</i> , cattle breeding	XVII., 67
Dairy industry	XI., 426
Improvement of stock	XI., 421
<i>Switzerland</i> , improvement of cattle breeding	XIV., 303; XVI., 852
<i>Transvaal</i> , cattle for	XI., 41
<i>United States</i> , disinfection of imported hides... ..	XIV., 438; XV., 66, 385; XVI., 764
<i>Venezuela</i> , probable demand for pedigree cattle	XVI., 677
<i>Caucasus</i> . See <i>Russia</i> .	
Cauliflower cultivation in France	XVII., 861
Census, agricultural classification in census of 1911	XVII., 1027
Agricultural population of United Kingdom... ..	XI., 271
Agricultural population in different countries	XIV., 433
Census of production... ..	XV., 81, 631; XVI., 62; XVII., 769, 948
Central Co-operative Agricultural Bank, Ltd.	XIII., 629
Cereals. See <i>Corn</i> , <i>Wheat</i> , <i>Barley</i> , etc.	
Ceylon, destruction of plant pests	XVI., 412
Chaff-cutting Machines (Accidents) Act	XIII., 225
Chalk, use for manure	XII., 404
Value of, as a dressing for light soils	XVII., 306
Chambers of Agriculture in Prussia	XIII., 362
Charleton, W. L.: Co-operative horse insurance... ..	XIV., 275
Charlock, destruction of XI., 155; XIII., 361; XIV., 568; XV., 776, 956; XVI., 761, 854; XVII., 1018	
Cheese (see also <i>Dairying</i>): Analysis of samples at Government laboratory, 1906	
Brie, method of making	XVII., 449
Caerphilly, investigations into manufacture	XV., 955
Camembert, making	XVII., 371
Investigations into	XII., 434
Cleanliness in making	XII., 144
Coating with paraffin wax	XI., 169
Cold curing	XIII., 426
Cold storage, effect on weight	XIII., 429
Early season cheeses, experiments with	XVII., 929

Cheese (*continued*)—

- Edam, method of making XI., 237
 Factories in United Kingdom, production, etc. XVII., 949
 Pont l'Évêque, method of making XVII., 449
 Small holders, cheese making for XVI., 89
 Soft cheese making ... XIII., 210; XVI., 96, 758; XVII., 371, 449
 Wensleydale, experiments in making XVI., 759
Denmark, export to United Kingdom XIV., 375
France, Roquefort cheese industry XVII., 861
- Cherries (see also *Fruit*): Grafting XII., 1
 Pruning XI., 522
 Pulping XI., 621
 Spraying XI., 641
 Varieties XI., 455
- Cheshire and Shropshire Farmers' Supply Association XV., 919
- Chickens. See *Poultry*.
- Chicory : Industry in Great Britain and Belgium XI., 268
 Reduction of duties on home-grown XIII., 678
- Chile : Breeding stock for XII., 376
 Nitrate of soda deposits XIII., 473
- Chilian Nitrate Combination XVI., 860
- China, forestry in XVI., 61
 Soy bean production XVI., 229, 735, 860
- Churns, circular to makers of milk XIV., 41
- Cider : Alcoholic fermentation in XIII., 241
 Apples for cattle feeding XI., 549; XII., 231
 Bottled cider, yeast flora of XVI., 1025
 Bush apples for XV., 534
 Copper vessels, effect of boiling in XV., 777
 Fermentation, rate of XVI., 1025
 Imitation cider XVI., 486
 Investigations into manufacture XI., 46; XV., 959
 Model cider orchards XV., 610
 National Fruit and Cider Institute XII., 321, 522; XIII., 656
 New market for English cider XII., 577
 Planting cider orchards XIV., 577; XV., 373
 Summary of experiments XV., 959; XVI., 938, 1025
 Supply to agricultural labourers XVI., 42
 Varieties of apples XII., 526
France, standards for cider XV., 777
 Production XVI., 146
- Cirencester, Royal Agricultural College XIII., 657
- Clarke, Joseph : Salford cattle market XV., 788
- Clayton, C. H. J. : Water supply for small holdings XVII., 289
- Clover : Alsike, seed and its impurities XIII., 7
 Clover Sickness XIV., 223; XVI., 858
 Crimson or Italian (*Trifolium incarnatum*) XIII., 264
 Experiments with, summary of XV., 780
 Impurities in seed XII., 716; XVI., 933
 Inoculation experiments XVII., 750
 Manurial experiments XI., 104; XV., 787; XVII., 403, 583
 Pig-feeding XVI., 821
 Pollination by humble bee XV., 753
 Red clover XIII., 96, 471, 557; XV., 787
 Swedish red clover XV., 605
 White, seed and its impurities... .. XIII., 7
 Wild white clover XVI., 713; XVII., 668
- Cnicus acaulis*, stemless or dwarf thistle XVII., 907

Coast Erosion Commission : Report on afforestation	...	...	XV., 853
Cold storage : Cheese	...	...	XIII., 429
Fruit	...	...	XI., 174, 624
International Cold Storage Association	...	...	XVI., 146
International Congress on	...	...	XV., 383
Poultry	...	...	XVII., 232
<i>Canada</i> , subsidies for warehouses	...	...	XV., 221
Collinge, Walter E. : Apple-blossom weevil	...	...	XV., 674
Black currant gall-mite	...	...	XIII., 585
Cherry stem borer	...	...	XVII., 828
Gall midges	...	...	XIV., 311
Winter spraying of fruit trees	...	...	XIII., 623
Colombia : Demand for live stock in	...	...	XVI., 40
Live stock in	...	...	XV., 289
Colorado. See <i>United States</i> .			
Colostrum, composition of	...	...	XIV., 520
Sale of	...	...	XIII., 249
Coltsfoot	...	...	XIII., 735
Combinations in the meat trade, committee on	...	...	XVI., 214
Commercial agents abroad	...	...	XI., 53
Committees and Commissions : Agricultural education	XIV., 48 ; XV., 357		
Agricultural science, advisory committee	...	...	XVII., 318, 404
Butter trade	...	...	XIII., 300
Coast erosion, Report on Afforestation	...	...	XV., 853 ; XVI., 44
Distemper in dogs	...	...	XIV., 242
Epizootic abortion	...	...	XII., 119 ; XVI., 478 ; XVII., 481
Fertilisers and Feeding Stuffs Act	...	...	XI., 760
Regulations, 1906	...	...	XIV., 116
Fiars prices	...	...	XVII., 320
Forestry in Ireland	...	...	XV., 128
Fruit industry	...	...	XII., 235, 693 ; XIII., 431, 747
Grouse disease	...	...	XII., 119
Historical monuments	...	...	XVII., 675
Hop industry	...	...	XV., 363
Horse-breeding	...	...	XV., 206
Humane slaughtering of animals	...	...	XI., 298
Industrial alcohol	...	...	XII., 105
Irish butter, trade descriptions	...	...	XVI., 149
Irish flax growing industry	...	...	XVII., 65, 996
Live stock, export trade	...	...	XVII., 59
Louping-ill and Braxy	...	...	XIII., 135
Meat supply	...	...	XV., 385
Meat trade, combinations in	...	...	XVI., 214
Meteorological office	...	...	XI., 248 ; XIII., 631
Ordnance survey, employment in	...	...	XVII., 319
Physical deterioration	...	...	XI., 307
Poultry keeping in Scotland	...	...	XVI., 216
Railway rates	...	...	XI., 79, 180 ; XIII., 142
Rural education conference	...	...	XVII., 318, 405, 836
Rural housing	...	...	XIII., 694, 753
Sewage disposal	...	...	XV., 690
Sheep-dipping	...	...	XI., 358, 361
Small educational endowments	...	...	XVII., 65
Small Holdings	...	...	XII., 118 ; XIII., 597
Swine fever	...	...	XVII., 150
Tuberculosis, Royal Commission on	...	...	XI., 161 ; XIII., 740 ; XV., 845
Tuberculosis (Animals) Compensation Bill	...	...	XI., 297
Workmen's Compensation Act	...	...	XI., 373

- Commons Rules, 1909 XVI., 410
- Compensation : Workmen's XI., 373 ; XIV., 285
- Condiments, use of XII., 367 ; XVII., 390
- Congresses : Afforestation of mountains, Congress at Bordeaux ... XIV., 119
- Agricultural, at Vienna XIII., 178, 311
- Agricultural Associations, at Brussels XV., 866 ; XVI., 944
- Apiculture, International Congress at Brussels XVII., 242
- Colonial agriculture, at Brussels XVI., 415
- Dairy Congress, International, at the Hague XIV., 366
- Forestry congress at Brussels XVI., 676 ; XVII., 326, 636
- Horticultural congress at Brussels XVI., 677
- International agricultural congress, Madrid XVII., 763
- Live stock, breeding and feeding, Brussels XVII., 327
- Preservation of natural features, at Paris XVI., 415
- Refrigeration, International Congress at Paris XV., 383
- Seed Testing Congress at Hamburg XIV., 437
- Suppression of fraud in food, Paris XVI., 221
- Utilisation of canals, at St. Petersburg XV., 62
- Connell, Isaac : Agricultural arbitration in Scotland XIV., 141
- Constable, G. W. : Improved grain-drying sheds XIV., 513
- Coombe plantation, Keswick XVII., 265, 353
- Co-operation (see also *Credit and Insurance*) : Agricultural and
- Horticultural Association XIV., 117
- Agricultural Associations Directory XVII., 670
- Agricultural Co-operative Federation XII., 694 ; XIII., 628 ;
 XV., 924
- Agricultural Organisation Society ... XI., 117 ; XII., 154, 310, 694 ;
 XIII., 628 ; XV., 283, 383, 447,
 922 ; XVI., 354 ; XVII., 394
- Aspatia Agricultural Co-operative Society ... XIII., 755 ; XV., 921
- Bacon curing XVI., 99
- Breeding of stock in Northumberland XI., 356
- Buckingham Agricultural Trading Association XIII., 630
- Cambridge, Hunts, and Isle of Ely Farmers' Supply
 Association XV., 923
- Cheshire and Shropshire Farmers' Supply Association XV., 919
- Congress of agricultural associations XV., 866 ; XVI., 944
- Co-operative Societies in the United Kingdom, number, &c. XVII., 140,
 947
- Dairying in England, co-operative XI., 118 ; XII., 193
- Dunlop Co-operative Dairy Association XVI., 817
- Eastern Counties Farmers' Co-operative Association XIII., 56 ; XV.,
 580, 923
- Eastern Counties Farmers' Co-operative Society XII., 193 ; XVI., 813
- Eggs, sale of XIII., 529 ; XV., 771 ; XVII., 989
- Farmers' Supply Association of Scotland XV., 922
- Farming requisites, societies for purchase of XV., 917
- Hereford Co-operative Fruit Grading Society XIII., 174
- Irish Agricultural Organisation Society XI., 80
- Lincolnshire Farmers' Association XV., 919
- Lledrod Agricultural Society XIII., 630
- Milk dépôts, rules for XVII., 222
- Milk supply, organisation of XVI., 810
- Milk-testing societies XIV., 321 ; XVII., 470
- Northern Allotment Society XII., 202
- National Poultry Organisation Society XIV., 114, 182
- Nidderdale Dairy Society XVI., 815
- Northumberland Agricultural Supply Association XV., 920
- Poultry societies in Ireland XI., 80, 257
- Sealford Dairy XVI., 816

Co-operation (*continued*)—

- Scottish Agricultural Organisation Society ... XIII., 629 ; XV., 382 ;
 XVI., 816 ; XVII., 138, 222
- Small holders, co-operation for ... XV., 579
- Small holdings and agricultural credit societies, return ... XVII., 485
- Small holdings, associations for the formation of ... XV., 281
- Small Holdings Committee, recommendations as to co-
 operation ... XIII., 600
- Small holdings, co-operation in tenure ... XVI., 353
- Small holdings in Surrey, co-operation in ... XVII., 14
- Small holdings, relation of co-operation to ... XVII., 395
- Wensleydale Pure Milk Society ... XVI., 811
- Western Counties Agricultural Co-operative Association ... XV., 920
- West Norfolk Farmers' Manure Company ... XV., 920
- Winchcombe Co-operative Auction Mart ... XIII., 629
- Yoxall Co-operative Dairy Society ... XVI., 815
- Denmark*, co-operative agriculture in ... XI., 120 ; XVI., 497, 998 ;
 XVII., 154, 503, 566
- Milk-testing and Control Societies ... XII., 21 ; XVI., 998
- France*, fruit-growing ... XVII., 502
- Milk-testing ... XVII., 565
- Germany*, cattle-breeding ... XII., 406
- Co-operative granaries ... XI., 473
- Milk-testing societies ... XII., 24, 411 ; XVI., 583
- Profit-sharing on a farm ... XIV., 503
- Russia*, co-operative associations ... XVII., 505
- Sweden*, bacon curing ... XVII., 590
- Co-operative associations, number ... XVII., 925
- Milk control associations ... XII., 608 ; XVII., 924
- Moorland reclamation societies ... XVII., 923
- United States*, co-operative demonstration work ... XVI., 135
- Dairy factories ... XI., 367
- Copper sulphate. See also *Spraying*.
- Effect on germination of seeds ... XII., 289
- „ „ plants ... XII., 413
- Foot-rot baths ... XII., 40, 360
- Sale of impure ... XII., 542 ; XVI., 477
- Corn (see also *Wheat, Barley, Oats*, etc.) : Harvesting, expenses of ... XV., 729
- Russian method of cultivation ... XVI., 740 ; XVII., 932
- Canada*, cereal breeding ... XI., 206
- Germany*, bounties ... XI., 100
- Co-operative granaries ... XI., 473
- Roumania*, grain trade, 1909 ... XVII., 411
- Russia*, grain trade of Odessa ... XV., 778
- United States*, freight rates ... XI., 147
- Grading of grain ... XV., 50
- Shipments from New York ... XV., 381
- Corn cockle (*Agrostemma Githago*) ... XVII., 38
- Correspondents, agricultural ... XI., 566
- Cottages : Agricultural labourers', deficiency of ... XIII., 534
- Prizes in Ireland for ... XIV., 49
- Report on rural housing ... XIII., 694
- System of letting cottages with farms ... XIII., 753
- Cotton or Cotton-seed Cake : Bombay and Egyptian ... XI., 289 ; XII., 544
- Feeding to cows ... XI., 716
- Feeding to sheep on poor pasture ... XIII., 555
- Husk and woolly matter in decorticated ... XV., 366
- Couch or twitch ... XVI., 279
- Cow clubs ... XII., 82 ; XV., 32, 572

- Cow-grass XIII., 97
- Cow-houses, construction of XVI., 533
- Cow-sheds, construction in Denmark XI., 146
- Competitions in Belgium for well managed XIII., 165
- Crab apples, marketing of XV., 519
- Cream (see also *Dairying*): Acidity of, influence on flavour of
 butter XVI., 581
- Adulteration XVI., 669
- Babcock test XI., 370
- Clotted XIII., 210; XIV., 41; XVI., 130
- Ripening XVI., 759
- Creameries in United States... .. XI., 367
- Creamery systems of payment for milk and cream XIV., 741
- Credit, agricultural: Central Co-operative Agricultural Bank ... XIII., 629
- In Great Britain XII., 96, 154; XV., 407
- Land Banks and Loan Societies XVII., 485
- Return as to number of credit banks XVII., 140, 947
- Austria* XV., 867
- Belgium* XII., 279
- Cape Colony* XIV., 689
- Cyprus* XV., 620
- Denmark* XIII., 118
- France* XII., 101, 149; XVII., 844
- Germany* XII., 100, 725
- Hungary* XII., 210
- Italy* XII., 100; XVII., 1002
- Natal* XIV., 690
- Norway*, small holdings bank in XVI., 945
- Queensland* XII., 375
- Transvaal* XIV., 690; XV., 776
- West Australia* XIV., 690
- Creosoting timber XIII., 339
- Crepis Taraxacifolia*, a weed of pastures XV., 303
- Cricket-bat willow XIV., 461
- Crimson clover XIII., 264
- Crop estimates, value to farmer (see also *International Agricultural Institute*) XVII., 572
- Cross-breeding for mutton in the North of England XIII., 513
- Cross-breeding of wheat. See *Wheat and Journal Supplement*, No. 4, June, 1910.
- Crown lands, small holdings on XIV., 278; XV., 608
- Crows (see also *Birds*): Food of XI., 630
- Cruelty in destruction of animals, prevention of XVI., 930
- Cumberland and Westmorland Farm School, education at ... XIII., 648
- Cumnock and District Milk Record Association XIV., 323
- Cupressus*, alleged poisonous properties of XII., 432
- Currants: Manuring, experiments in XI., 625
- Pulping XI., 621
- Spraying XI., 641
- Training and pruning XI., 522
- Varieties XI., 455
- Cyprus: Agricultural Bank XV., 620

Dairying (see also *Cattle, Butter, Cheese, Milk*, etc.):

- Abnormalities in dairy produce XI., 364
- Adulteration, Report of Board of Agriculture under Food
and Drugs Acts ...XI., 429; XII., 440; XIII., 499; XIV., 623;
XV., 444; XVI., 400; XVII., 220
- Butter, cheese, and margarine factories, production, etc. ... XVII., 949
- Buttermilk for pig-feeding XVI., 828
- Cleanliness in dairy management XII., 136
- Co-operative dairying (see also *Co-operation*)... .. XI., 118; XII., 193
- Cow-houses, construction XVI., 533
- Dairies, cowsheds, and milkshops regulations XIV., 310
- Dairy cows, effect of keeping out at night in winter XVII., 755
- Dairy shorthorn, development of XVII., 441
- Hegelund method of milking XII., 170
- Instruction, centres for XIII., 645
- International Dairy Congress XIV., 366
- Irish butter trade, departmental committee XVI., 149
- Oxfordshire Agricultural Society, competition XV., 214
- Pig-feeding, suggestions... .. XIV., 587; XVI., 718, 820
- Production and consumption of dairy produce XI., 232
- Public health, sources of milk supply XIV., 427
- Railway rates XVI., 308
- Rations for milch cows XV., 934
- Schools XIII., 645
- Selection and milking of dairy cattle XIII., 449
- Starters, use of XVII., 716
- Summary of experiments XV., 951; XVI., 753;
XVII., 852, 929
- Water supply for villages XV., 350
- Whey for pig-feeding XVI., 828
- Australia*, legislation XIV., 92
- Belgium*, competition for well-managed cowsheds XIII., 165
- Denmark*, breeding centres XII., 549
- Cattle breeding in XVI., 998
- Dairy farms XI., 144
- Dairy industry in XVII., 503
- State aid to dairies XVII., 569
- France*, adulteration law XII., 373
- New South Wales*, creamery systems of payment XIV., 741
- Queensland*, legislation XII., 609
- Sweden*, dairy farming XI., 426; XVII., 67
- United States*, dairy factories XI., 367
- System of inspection XV., 292
- Uruguay*, dairy industry in XVI., 768
- Damascus, agriculture in XIV., 760
- Damsons: Planting... .. XI., 449
- Training and pruning XI., 522
- Varieties XI., 454
- Dauntsey Agricultural School, West Lavington, Wilts XIII., 659
- De Courcy, H.: Animal food for poultry XIII., 457
- Chicken coops XIV., 368
- Co-operative poultry societies in Ireland XI., 80
- Experiments in fattening turkeys XI., 385, 495
- Guinea fowl XII., 533
- Poultry rearing and fattening in Ireland XI., 257
- Poultry-yard fittings XIII., 272
- Raising and fattening geese for market XI., 458
- Rearing of pigeons for market XII., 272
- Winter egg production XI., 529
- De Winton, W. E.: Food habits of wood pigeons XIV., 686

- Denmark : Agricultural credit XIII., 118
 Agriculture and dairying in XVI., 497 ; XVII., 503
 Allotments for agricultural labourers XIII., 438
 Butter quotations XI., 236
 Breeding centres... .. XII., 549
 Cattle-breeding system XVI., 998
 Cheese, export to United Kingdom XIV., 375
 Co-operation and bacon-curing... .. XVI., 100, 497
 Co-operative agriculture XI., 120 ; XVII., 154
 Cost of food in production of milk XIV., 332
 Destruction of rats XIV., 437 ; XV., 295, 620
 Expenditure of Ministry of Agriculture XVI., 226
 Farms in XI., 144
 Importation of live stock XV., 760
 Inspection of meat for export XV., 620
 Insurance of live stock XV., 523
 Margarine law XII., 434
 Marking of agricultural produce XIII., 110
 Milking machinery in XVI., 501 ; XVII., 503
 Milk testing and control XII., 21 ; XVI., 998
 Moorland reclamation XVII., 208
 Planting waste lands XV., 859
 Poultry industry, State assistance to XIV., 631
 School for allotment holders XII., 628
 Seed control XV., 769
 Small holdings XVI., 854
 State assistance to agriculture XVII., 566
 Taxation, system of XIV., 183
 Transport to Great Britain, cost of XI., 95
 Tuberculosis : Association for prevention of XIV., 437
 Law XI., 42
 Suppression of XV., 494
 Warble fly, destruction of XVII., 659
- Dervock Poultry Society XI., 82
- Destructive Insects and Pests Acts and Orders ... XIV., 222 ; XV., 304 ;
 XVII., 233
- Development and Road Improvements Fund Act, 1909 ... XVII., 320, 653
 Light horse breeding grant (see also under *Horses*) XVII., 841
- Devonshire cream, suggestions as to making ... XIII., 210 ; XIV., 41 ;
 XVI., 130
- Dewponds XIII., 181 ; XIV., 498, 630 ; XVI., 61
- Diggle, J. H. : Cow and Pig Clubs in Lincolnshire XII., 82
- Dipping of sheep. See *Diseases of Live Stock*.
- Diseases of forest trees, diagrams XI., 761
- Diseases of live stock (see also *Import Regulations*) :
- Abortion, Committee on Epizootic XII., 119 ; XVI., 478 ; XVII., 481
 Actinomycosis XIV., 490 ; XV., 331
 Anthrax XIII., 105, 248
 Cases in factories XVI., 230
 Cases in sheep, circular XV., 386
 Causation and spread in Scotland XVI., 1030
 Communicability to man XV., 59
 Infection through feeding stuffs XV., 58
 Inoculation for prevention of XVI., 648
 Notice to stock owners XI., 159
 Order, 1910 XVII., 671
- Braxy, see *Louping-ill*.
- Broad tape worm, note as to XV., 960

Diseases of live stock (*continued*)—

Diseases communicable between man and animals ...	XV., 59
Diseases of Animals Acts : Reports ...	1903, XI., 157 ; 1904, XII., 240 ; 1905, XIII., 246 ; 1906, XIV., 170 ; 1907, XV., 288 ; 1908, XVI., 393 ; 1909, XVII., 391, 1018
Summary of Orders in force ...	XIV., 236
Distemper in dogs, committee on ...	XIV., 242
Dogs, conveyance by railway, circular ...	XIV., 757
"Double scope" in sheep ...	XIII., 746
Epizootic Lymphangitis... ..	XI., 42 ; XII., 364, 432
Farcy. See <i>Glanders</i> .	
Foot-and-mouth disease... ..	XV., 62, 697 ; XVII., 407, 504, 589
Foot-rot	XI., 553 ; XII., 40, 360, 551 ; XV., 261
Foot-sore, non-contagious	XV., 261
Fowl cholera	XV., 345
Gapes in fowls, remedy for	XIII., 368
Glanders or farcy	XIV., 419, 438, 608, 694 ; XV., 59, 222, 836
Glanders, veterinary report on... ..	XVI., 411
"Hard-tongue" or actinomycosis	XIV., 490 ; XV., 331
Horse bot fly	XII., 108
Husk or hoose in calves... ..	XI., 618
Ireland, disease of young cattle in	XIII., 167, 487
Joint ill	XI., 110, 678
Liver rot of sheep, R.A.S.E. articles on	XI., 181
Louping-ill and braxy	XIII., 135 ; XVI., 1030 ; XVII., 493
Mallein test, directions for applying	XIV., 424
Mange in cattle	XI., 741
Milk fever (parturient apoplexy)	XI., 616
Navel ill or specific arthritis of lambs... ..	XI., 110, 678
Pamphlet describing certain diseases of animals	XII., 441
Parasitic gastritis... ..	XIII., 291
Parasitic mange in horses, asses, and mules	XVI., 204
Rabies in Northampton... ..	XIV., 757 ; XV., 61
Redwater in cattle	XVI., 395
Rheumatism, acute, in lambs	XI., 231
Scour and wasting in young cattle in Ireland... ..	XIII., 167, 487
Sheep dipping :	
Caution to flock-owners	XVII., 239
Committee, Report... ..	XI., 358
Composition of approved dips	XI., 662, 742
Description of baths	XV., 269
Experiments... ..	XI., 361
Injury to skins by dipping	XVII., 627
Materials, demand for in South Africa	XIV., 503
Orders	1907, XIII., 743 ; 1908, XV., 145
Ireland	XIV., 34
Pollution of streams by	XV., 619
Prescriptions for sheep dips	XI., 422 ; XVII., 238
Suggestions	XII., 678
Sheep disease in Ayrshire	XIII., 291
Sheep maggot fly (<i>Lucilia sericata</i>)	XI., 423, 551 ; XVII., 626
Sheep nostril fly (<i>Oestrus ovis</i>)	XI., 227
Sheep scab, eradication in Scotland	XII., 516, 678
Circular to local authorities	XI., 658
Specific arthritis of lambs	XI., 110, 678
"Struck" in sheep	XIV., 80 ; XV., 208 ; XVII., 1017
Stomach round worm in lambs... ..	XV., 960
Sturdy or gid in sheep... ..	XI., 294
Summary of experiments	XV., 960 ; XVI., 1030 ; XVII., 1015
Swine erysipelas	XII., 428 ; XVI., 911 ; XVII., 1018
Swine fever	XV., 143, 223, 333 ; XVII., 150
Swine movement in combined districts	XI., 619 ; XII., 682
Texas fever (<i>Piroplasmosis Bovis</i>) or Redwater in cattle	XVI., 395

Diseases of live stock (*continued*)—

- Trichinosis XVII., 1018
 Tuberculosis ... XI., 161, 296, 297; XIII., 740; XVI., 232, 1035
 In pigs XI., 296; XII., 747
 New test for... .. XVII., 1015
 Suppression among cattle on Continent XV., 494
 Royal Commission, Reports ... XI., 161; XIII., 740; XV., 845
 Warble fly (*Hypoderma bovis*) ... XIII., 482; XVI., 937; XVII., 317,
 621, 659
 White scour in calves XI., 715
Brazil, liability of cattle to Texas fever XV., 757
Canada, tuberculin test in XI., 162
Cape Colony, sale of sheep and cattle dips XVI., 325
Denmark, tuberculosis law XI., 42
 Association for prevention of tuberculosis XIV., 437
France, legislation XVI., 137
Germany, institute for the investigation of foot-and-mouth
 disease XVII., 504
 Mortality among live stock XV., 535
United States, Bureau of Animal Industry, duties of XV., 133
 Foot-and-mouth disease XV., 697
 Rabies XIV., 502; XV., 382
 Prevention of animal diseases in XI., 163
 Tuberculosis in New York State XV., 765
 Docks XVI., 382
 Dodder XIII., 87, 331; XV., 280; XVI., 209, 933
 France, regulations XII., 742
 Dogs (see also *Diseases of Live Stock*): Committee on dis-
 temper in XIV., 242
 Conveyance by railway XIV., 757
 Dogs Act, 1906 XIII., 500
 "Double scope" in sheep. See *Diseases of Life Stock*.
 Douglas, Loudon M. : Co-operative bacon-curing XVI., 99
 Drainage : Cleansing of water-courses XII., 214
 Drapers' Company, grant to Cambridge University XII., 182
 Drought, resistance of young trees to XIII., 114
 Druce, Edric : The cultivation of field beans XVII., 631
 Dry farming XVII., 918
 Drying or evaporating fruit XII., 756
 Drying potatoes in Germany... .. XIII., 358; XIV., 568
 Drying sheds for grain XIV., 513
 Duck raising XII., 462
 Fattening, use of charcoal XVI., 1026
 Ducklings, coast of rearing XV., 664
 Dung. See *Manures*.
 Dunlop Co-operative Dairy Association XVI., 817
 Dunlop, W. R. : Barley-straw for ensilage... .. XVI., 298
 Wind power XVI., 904
 Dunstan, M. J. R. : Intensive cultivation... .. XV., 834
 Romney Marsh sheep XIV., 75
 Dunstan, Prof. W. R. : Poisonous properties of *Phaseolus*
lunatus beans XIV., 722
 Durham College of Science. See *Armstrong College*.
 "Durum" or macaroni wheat in the United States XI., 203, 543; XII., 694
 Dyers' greenweed XIV., 375

- Earnings of agricultural labourers. See *Labour*.
- Earwigs. See *Insects*.
- Eastern Counties Dairy Farmers' Co-operative Society XII., 193 ; XVI., 813
- " " Farmers' Co-operative Association XIII., 56 ; XV., 580, 923
- Edam cheese XI., 237
- Edinburgh and East of Scotland College of Agriculture : Forestry instruction XVI., 978
- Education : Agricultural, for young men in Ireland XV., 375
- In England and Wales XIII., 641 ; XVI., 529
- Reports by Board of Agriculture... 1903-4, XI., 566 ; 1904-5, XII., 625 ; 1905-6, XIII., 689 ; 1906-7, XIV., 747 ; 1907-8, XVI., 486 ; 1908-9 and 1909-10, XVII., 653
- Committee on agricultural XIV., 48
- Report XV., 357
- County staffs of instructors in agricultural subjects XVII., 836
- Education of the farmer's son XVI., 654
- Forestry : In Great Britain XI., 1, 751 ; XII., 358, 564, 692 ; XIII., 180, 647 ; XVI., 969
- School in the Forest of Dean XIII., 567, 647 ; XIV., 694 ; XV., 609
- John Innes Horticultural Institution XV., 852
- Manchester University, Department of Agriculture XVI., 1037
- Manual processes of agriculture, instruction in XIII., 750
- Memorandum of arrangements between Board of Agriculture and Board of Education XVI., 529
- Memorandum on the principles of rural education XVII., 942
- Model allotments XI., 351
- Ordnance Survey Maps for schools XI., 375
- Oxford University, instruction in agriculture at XVI., 749
- Physical Deterioration Committee, Report XI., 307
- Rural education conference XVII., 318, 405, 836
- ,, subjects in elementary schools XIV., 749
- Shows, value to students XIII., 103
- Small educational endowments, committee XVII., 65
- ,, Holdings Committee, recommendations XIII., 600
- Students' Association, Durham College of Science XI., 306
- Suggestions on rural education... .. XIV., 751
- Surveyors' Institution, scholarships awarded by XI., 751 ; XII., 565 ; XIII., 180 ; XVII., 138
- Argentina* XVI., 711
- Belgium*, congress at Liège XII., 248
- School of Agricultural Mechanics... .. XIII., 630
- Canada*, agricultural education... .. XIII., 29 ; XIV., 117
- Lectures to farmers XIII., 760
- Report of deputation from University College, Reading XVII., 912
- Denmark*, school for allotment-holders XII., 628
- France*, practical schools of agriculture XI., 52
- Germany*, agricultural winter schools XIII., 691
- Chambers of Agriculture in Prussia XIII., 362
- Course for migratory teachers XI., 696
- Forestry education in XI., 178
- Gardening school at Dahlem XV., 384
- Holland*, agricultural education XVI., 371
- Hungary*, agricultural education XV., 134
- Norway*, agricultural education XVII., 1008
- Forestry education XVII., 1010
- South Africa*, colleges and experiment stations XVI., 744
- School of Forestry XIII., 373
- United States*. See also *Journal Supplement*, No. 1, Jan., 1908.
- Agricultural experimental work XIII., 401
- Demonstration farms XV., 534

Education (*continued*)—*United States (continued)*—

General Education Board	XIV., 117
Lectures to farmers	XVI., 328
Report of deputation from University College, Reading	XVII., 912
Report on agricultural education	XIV., 563, 624

Eggs (see also <i>Poultry</i>): Artificial incubation	XI., 135; XII., 87; XIII., 201
Brown or tinted, production of	XII., 611
Co-operative Societies in Ireland	XI., 80
Demonstration train	XVII., 394
Demand for English	XV., 851
Eggs <i>versus</i> table poultry	XIII., 521
Grading	XI., 86; XVII., 990
Laying competitions	XII., 369; XV., 383; XVI., 108
Laying records	XVI., 584, 1029
Packing	XI., 45, 89
Preservation	XIII., 526; XV., 65
In water-glass	XIII., 688; XV., 880
Production, cost, profit, etc.	XV., 1028
Sale by co-operative means	XV., 771; XVII., 989
Winter laying	XI., 529; XIII., 524
Winter production, feeding for	XII., 468
<i>Denmark</i> , transport rates from	XI., 97
<i>Germany</i> , co-operative egg societies in	XVI., 23
<i>Russia</i> , egg trade... ..	XIV., 113; XVII., 1033
<i>South Australia</i> , export to England	XIV., 55
<i>United States</i> , method of sale	XVII., 991
Egypt: Agriculture in	XV., 532; XVII., 766
Chemical manure trade	XIV., 605
Live stock in	XV., 849
Wheat growing	XV., 284
Electricity and plant growth... ..	XVII., 16
Electricity as a motive power on the farm... ..	XIII., 568
<i>Germany</i> , use in	XVII., 768
Emigration: Rhodesia	XII., 631
Employers' liability, compensation for injuries to workmen in agriculture	XI., 373; XIV., 285
Ensilage:	XIV., 375; XVI., 298, 1031
Leaflet, notice as to	XIV., 247, 375
Maize as a fodder and silage crop	XIV., 14
Utilisation of barley straw	XVI., 298
Epizootic Abortion. See <i>Diseases of Live Stock</i> .	
,, Lymphangitis. See <i>Diseases of Live Stock</i> .	
Erysipelas, swine. See <i>Diseases of Live Stock</i> .	
Essex County Technical Laboratories, agricultural education	XIII., 653
Ettle, John: Grafting fruit trees	XII., 1
National Fruit and Cider Institute	XII., 522
Evaporation of fruit	XII., 756
Excise duties on chicory, reduction... ..	XI., 268; XIII., 678
Exhibitions: Accra, machinery and implements, 1911	XVII., 326, 677
Allahabad agricultural exhibition, 1910-11	XVI., 859
Antwerp agricultural exhibition, 1906	XIII., 120
Bangkok agricultural exhibition, 1911	XVII., 860
Berlin hop and barley exhibition, 1908	XV., 382
Brussels international exhibition, 1910	XVI., 55, 674, 677, 766; XVII., 127, 661

Exhibitions (*continued*)—

Bucharest exhibition, 1906	... .. XII., 632, 760
Buda-Pesth, exhibition of baking industry at, 1907...	... XIII., 760
Buenos Aires agricultural exhibition, 1910	... XVI., 220, 330, 413, 712, 765, 944; XVII., 129
" " " show, 1907...	... XIV., 603
Cape Town, agricultural machinery	... XVI., 414
Capodistira exhibition, 1910	... XVI., 221
Chicago, dairy show	... 1906, XII., 375, 488; 1907, XIV., 310
Live stock show, 1907	... XIV., 247; XV., 290
Chile international agricultural exhibition, 1910	... XVII., 66, 154
Dresden horticultural exhibition, 1907	... XIV., 55
Ekaterinoslav exhibition, 1910...	... XVI., 676; XVII., 66
Florence horticultural exhibition, 1911	... XVI., 943
Forestry exhibition in Gloucestershire, 1907	... XIV., 56
"French gardening" exhibition, Regent's Park, 1910	... XVI., 1037
German Agricultural Society's show at Düsseldorf, 1907	... XIV., 55
Hague, dairying, 1907	... XIV., 56
" International horse show, 1907	... XIV., 56
Hamburg agricultural exhibition, 1910	... XVI., 859
Hexham fruit show and congress, 1910	... XVII., 153
Holland, horticultural exhibition at Zeist, 1909	... XVI., 57
Hyères horticultural and agricultural exhibition, 1910	... XVI., 859
Lagos agricultural show...	XII., 760; XVI., 859; XVII., 154, 327
Lahore agricultural exhibition, 1909	... XVI., 414
Lyons, horticultural and agricultural, 1907	... XIV., 119
Madrid agricultural show	... 1907, XIII., 758; 1908, XV., 61
Mannheim horticultural exhibition, 1907	... XIII., 566
Milan international exhibition, 1906	... XII., 503
Moscow poultry exhibition, 1906	... XIII., 440, 624
Nuremberg, forestry in the exhibition at, 1906	... XIII., 339
Odessa exhibition	1910, XVI., 221, XVII., 763; 1911, XVII., 1032
Omsk agricultural exhibition, 1911	... XVII., 677
Para, permanent exhibition of agricultural machinery	... XVI., 40
Paris horse show	... 1909, XVI., 139; 1910, XVII., 242
" horticultural products exhibition, 1910	... XVII., 326
" poultry exhibition	... 1907, XIII., 632; 1909, XV., 778
Piotrkow exhibition, 1909	... XV., 947
Prague agricultural exhibition	1909, XVI., 57; 1910, XVII., 66
Rome, horse-jumping competition, 1908	... XIV., 760
Rostov-on-Don agricultural exhibition	1905, XII., 760; 1909, XVI., 221, 415; 1910, XVII., 326
Roubaix international exhibition, 1911	... XVI., 414
Royal Agricultural Society, forestry	... 1904, XI., 179; 1905, XII., 53
St. Louis, exhibition of insect pests at	... XI., 436
St. Petersburg, exhibition of animals and machinery, 1910	XVII., 328
" poultry exhibition, 1907	... XIV., 119
Santo Domingo agricultural exhibition	... XII., 568
Saragossa, industry, agriculture, etc., 1908	... XIV., 438
Siberia, proposed floating exhibition of agricultural machinery	XV., 778
South Africa, agricultural shows	... XVI., 745
South-Eastern Europe, agricultural shows in	... XIII., 116
Stallions, exhibition at Royal Agricultural Hall, 1911	... XVII., 942
Swedish agricultural congress, 1906	... XIII., 184
Toulouse international exhibition, 1908	... XIV., 569
Turin international exhibition, 1911	... XVII., 327, 762, 1032
Twello exhibition, 1909	... XV., 947
Valencia exhibition, 1909	... XV., 947
Winnipeg industrial exhibition	1908, XV., 141; 1909, XVI., 139; 1911, XVII., 1031

Experiments (see also under *Apples, Poultry, Wheat*, etc.):

Demonstration farm at Clifton, Kelso...	... XIV., 55
Experimental error in field trials	... XVI., 365

Experiments (*continued*)—

Organisation of agricultural research	XIV., 389
Woburn experimental fruit farm, reports	XI., 625; XII., 489; XV., 55, 937
<i>Austria</i> , agricultural experiment stations	XV., 130
<i>Belgium</i> , action by Department of Agriculture	XI., 20
<i>Italy</i> , experimental farms	XVII., 155
<i>South Africa</i> , experiment stations	XVI., 744
<i>United States</i> , agricultural experimental work in	XIII., 401
Demonstration farms	XV., 534
Experiment stations, endowment of	XIV., 51

Export regulations. See *Import and Export Regulations*.

Factories: Anthrax in	XVI., 230
Bacon-curing	XVI., 103
Butter, cheese and margarine factories, production, etc.	XVII., 949
Factory Acts: Fruit Preserving Order	XIV., 503
Non-application to farm machinery	XIII., 225
Fairfax-Cholmeley, H. C.: Co-operative dairying in England	XII., 193
Fairy rings and their eradication	XIV., 296, 537; XV., 604
Falkland Islands, sheep-breeding in	XVI., 498
Fallow: bare fallows... ..	XIII., 1
Farcy. See <i>Diseases of Live Stock</i> .	
Farm accounts	XIII., 683; XV., 401; XVI., 453
Farm butter-making	XIII., 577
Farmers' Institutes in the United States (see also <i>Journal Supplement</i> , No. 1, Jan., 1908	XIII., 404
Farmers' Supply Association of Scotland	XV., 922
Farm machinery, precautions against accidents	XIII., 225
Farm products, cost of producing	XIII., 679
Farm records in Norfolk	XIII., 356
Farmyard manure. See <i>Manures</i> .	
Farriery: Shoeing of horses	XV., 909
Feathers and feather waste as manure	XIII., 67
Feeding stuffs (see also <i>Fertilisers and Feeding Stuffs Acts, Oilcakes</i>): Adulteration	XIII., 53; XVI., 400
Analysis, importance of... ..	XII., 230
Anthrax, infection of animals with	XV., 58
Barley straw for ensilage	XVI., 298
Beetroot pulp, dried	XVII., 415
Brewers' grains	XIV., 87; XVI., 1032
Comparative values	XII., 544, 547; XV., 931
Condiments in animal foods	XII., 367
Co-operative purchase (see also <i>Co-operation</i>)... ..	XI., 118
Decorticated cotton cake, husk and woolly matter in	XV., 366
Dried sugar beet	XI., 739
Egyptian and Indian cottonseed cake... ..	XI., 289; XII., 544
Farm foods, composition of various	XIV., 242
Herring flour as a cattle food	XVI., 769
"Java" beans, poisoning of cattle by	XII., 742; XIII., 52; XIV., 722
Maize and maize meal for pigs... ..	XIV., 542
Maize as a fodder and silage crop	XIII., 229, 681; XIV., 14; XVII., 583.
Mangolds, feeding value of	XIII., 416; XIV., 29
Molascuit, experiments with	XVII., 755
Oil, for milking cows	XVI., 757
Pigs, feeding stuffs for	XIV., 542, 589; XVI., 245, 726, 820

Feeding stuffs (continued)—

Residual manurial value in sheep feeding	...	...	...	...	XVII., 927
Rubber seed cake	...	...	...	...	XI., 51
Separated milk for calves	...	...	...	...	XIII., 238 ; XIV., 55
Soy beans...	...	...	...	...	XVI., 128, 735, 860, 940 ; XVII., 67, 410, 502, 688, 752, 927
Summary of experiments	...	...	...	...	XVII., 669, 752, 850
Sunflower seed	...	...	...	...	XV., 369
Sussex ground oats	...	...	...	...	XIII., 429
Swedes, quality of	...	...	...	...	XIII., 282
<i>Holland</i> , analytical stations for feeding stuffs	...	...	...	...	XVI., 375
<i>Spain</i> , market for fodder	...	...	...	...	XIII., 37
<i>Sweden</i> , chemical analysis stations	...	...	...	...	XVII., 922
Felspathic rocks as fertilisers	...	...	...	...	XIV., 540
Fences and hedges	...	...	...	...	XII., 65, 416
Fences, boundary, legal liability to repair	...	...	...	...	XIV., 607
Fenland, manuring of black	...	...	...	...	XVI., 493
Fenwick District Milk Record Association	...	...	...	...	XIV., 325
Fermentation, alcoholic, in cider	...	...	...	...	XIII., 241
Fermentation of hay	...	...	...	...	XI., 416 ; XV., 221
Fertilisers. See <i>Manures</i> .					
Fertilisers and Feeding Stuffs Act :	XI., 289, 438, 760 ; XIII., 462, 504, 604, 607, 612, 671 ; XV., 631				
Committee on regulations	...	...	...	...	XIV., 116
Disposal of samples by analysts	...	...	...	...	XIV., 691
Form of certificates	...	...	...	...	XVI., 668
Limits of error regulations, circular	...	...	...	...	XVII., 65
Methods of analysis, circular	...	...	...	...	XV., 779
Regulation as to analyst...	...	...	...	...	XIV., 371, 502
Reports of Board of Agriculture	XI., 429 ; XII., 440 ; XIII., 499 ; XIV., 623 ; XV., 444 ; XVI., 400 ; XVII., 220				
Fiars prices, committee on	...	...	...	...	XVII., 320
Field trials, experimental error in	...	...	...	...	XVI., 365
Findlay, W. M. : The milling properties of oats	...	...	...	...	XIV., 257
Finland : Forestry in	...	...	...	...	XI., 752
Opening for manures	...	...	...	...	XVII., 764
Finlayson, Daniel : Impurities in red clover seed	...	...	...	...	XII., 716
Lucerne and trefoil seed	...	...	...	...	XIII., 82
Meadow foxtail	...	...	...	...	XVI., 193
Sainfoin seed	...	...	...	...	XIII., 147
<i>Trifolium incarnatum</i> (Italian or crimson clover)	...	...	...	...	XIII., 264
White and alsike clover seed and their impurities	...	...	...	...	XIII., 7
Fire insurance : Agricultural produce	...	...	...	...	XI., 565
Co-operative	...	...	...	...	XIII., 437
Farming stock	...	...	...	...	XIII., 159
Fish waste as manure	...	...	...	...	XIII., 69
Fishing rights, rating of	...	...	...	...	XII., 285
Fishy butter	...	...	...	...	XI., 235
Flatt, Cecil A. : Notes on experiments with poultry	...	...	...	...	XVI., 635
Flax : Committee on industry in Ireland	...	...	...	...	XVII., 65, 996
Cultivation of	...	...	...	...	XIV., 438
<i>France</i> , bounties	...	...	...	...	XI., 108
Flaying, caution as to damage to hides	...	...	...	...	XVII., 628
Flemish Giant rabbit	...	...	...	...	XVII., 982

- Flour and meal : Quality and strength of XI., 321
 Storage, effect of XVI., 245
Germany, bounties XI., 100
Italy, duty XII., 696
- Flowers, bulb growing for XV., 897
- Foals, railway rates for XII., 179
- Fodder. See *Feeding Stuffs, Hay, Grass, Clover, etc.*
- Food : *United States*, inspection of imported XI., 431
 Standards XI., 31
- Food and Drugs Act. See *Sale of Food and Drugs Acts.*
- Foot-and-mouth disease. See *Diseases of Live Stock.*
- Foot-rot. See *Diseases of Live Stock.*
- Forbes, A. C. : Hedgerow timber XII., 129
- Forbes, Wm. : Vapourer moth XII., 420
- Forestry : Afforestation, area available in Great Britain XVI., 44
 Alice Holt Woods XII., 358 ; XVI., 981
 Armstrong College, instruction at XIII., 180, 647 ; XVI., 973
 Catchment areas, afforestation of XI., 468 ; XII., 614 ; XVI., 265
 Committee on forestry in Ireland XV., 128
 Congress at Brussels, 1910 XVI., 676 ; XVII., 326, 636, 856
 Coniferous trees, diseases of XI., 501
 Coombe plantation, Keswick XVII., 265, 353
 Creosoting timber XIII., 339
 Cricket-bat willow XIV., 461
 Decay of timber, method of testing XIII., 340
 Diploma at Cambridge XII., 564 ; XVI., 974
 Diploma at Oxford XII., 692 ; XVI., 970
 Diseases of forest trees, diagrams, note as to issue XI., 761
 Drought, resistance of young trees to XIII., 114
 Education in Great Britain XI., 1, 751 ; XII., 358, 564, 692 ;
 XIII., 180, 373, 567, 647 ; XVI., 969
 Engelmann spruce XVII., 945
 Exhibitions : Nuremberg XIII., 339
 Park Royal XI., 179 ; XII., 53
 Financial aspect of the growth of Scots pine XVII., 189
 Genus *Chermes* in its relation to forestry XVI., 441
 Hedgerow timber XII., 129
 Large larch sawfly. See *Insects.*
 Manuring of forest trees XII., 172 ; XIV., 745
 Novar system of combating larch disease XII., 722
 Osier cultivation XIV., 47 ; XV., 126, 766
 Pests of forest trees XVII., 478
 Preserving a decaying tree XIV., 481
 Rabbits, protection against XII., 630
 Rating of woodlands XII., 174
 Royal Commission, Report on Afforestation XV., 853
 School of Forestry, Forest of Dean XIII., 567, 647 ; XIV., 694 ;
 XV., 609 ; XVI., 971
 Scots pine, diseased XIII., 115
 Financial aspect of growth XVII., 189
 Influence of locality on seed XVII., 856
 Seed, influence of character XV., 125
 State forest in Scotland at Inverliever XV., 620 ; XVI., 219,
 980 ; XVII., 308
 Trees for side walks XIV., 759
 Woodland, area in Great Britain XII., 536
 Assessment of XVII., 236
 Improvement of XV., 502
 Woodpecker, injury to trees by XI., 693

Forestry (*continued*)—

<i>Argentina</i> , Quebracho wood	XI., 562 ; XII., 568
<i>Belgium</i> , administration in	XI., 18
Congress at Brussels	XVI., 676 ; XVII., 326, 636
Planting waste lands	XV., 862
State forests	XVII., 637
<i>Canada</i> , insect depredations in North American forests ...	XVII., 50
<i>China</i> , forestry in	XVI., 61
<i>Denmark</i> , planting waste lands	XV., 859
State aid to forestry	XVII., 570
<i>Finland</i> , forestry in	XI., 752
<i>France</i> , congress on reafforestation of mountains	XIV., 119
Planting waste lands	XV., 862
Reafforestation	XVI., 678
<i>Germany</i> , forestry in	XI., 176 ; XVII., 199
Investigation of plant diseases	XI., 629
Planting waste lands	XV., 942
<i>Holland</i> , planting waste lands	XV., 860
<i>New South Wales</i> , timber resources	XV., 949
<i>Norway</i> , forestry education	XVII., 1010
State aid to forestry	XVII., 1009
<i>Russia</i> , area of forests	XVI., 946
<i>Siberia</i> , timber in	XVI., 145
<i>South Africa</i> , School of Forestry	XIII., 373
<i>Sweden</i> , forestry legislation in	XI., 49
<i>Switzerland</i> , forestry law	XVI., 1019
<i>United States</i> : Consumption of timber	XV., 220
Forestry in the New England States	XVI., 500
Insect depredations in North American forests ...	XVII., 50
Timber supply	XVI., 1020
Formaldehyde, effect upon digestion and health	XVI., 156
Formalin: Effect on germination	XII., 289
In milk	XIII., 297
Preservation of ripe fruit	XII., 305 ; XIII., 562
Prevention of smut	XI., 214 ; XII., 289 ; XIV., 487 ; XVII., 935
Foulbrood, laws in United States	XV., 456
Fowls. See <i>Poultry</i> .	
Foxtail, meadow	XVI., 193
France: Adulteration law	XII., 373
Asparagus culture	XIII., 493
Barley, experiments in improvement of	XII., 733
Budget, agricultural	1905, XI., 564 ; 1909, XVI., 227 ; 1910, XVII., 501
Cauliflower cultivation	XVII., 861
Cider and perry, legal definition of	XV., 777
Congress on afforestation of mountains	XIV., 119
Cottage gardens and allotments, provision of	XV., 863
Credit banks, agricultural	XII., 101, 149 ; XVII., 844
Electricity as a motive power on the farm	XIII., 568
Farm produce from Brittany	XIV., 630 ; XV., 534
Flax and hemp, bounties on	XI., 108
Fruit and vegetable production	XV., 416
Fruit culture in Normandy	XV., 416, 611
Fruit pulp, preparation of	XI., 621
Fruit trade	XVII., 502
Hams, importation of British	XI., 554
Hand-thrashed rye straw	XV., 926
Horticultural commission	XVI., 769
Insurance: Cattle	XI., 547
Live stock	XV., 38, 526
Mutual	XIII., 119

France (*continued*)—

- Limousin fruit trade XV., 770
 Milk-testing society XVII., 565
 National Society of Agriculture XII., 55
 Normandy, agriculture in XIV., 604
 Persons engaged in agriculture, number XIV., 433
 Poultry industry, State assistance to XIV., 631
 Poultry-rearing appliances, agency for, at Marseilles XVII., 156
 Rats in XI., 50
 Reafforestation XVI., 678
 Roadside planting of fruit trees XI., 497
 Roquefort cheese industry XVII., 861
 Sale of seeds XVI., 325
 Schools of agriculture, practical XI., 52
 Tuber, a new (*Solanum commersonii*) XI., 412
 Tunisian wheat, admission of XI., 148
 Waste lands, planting XV., 862
- Fream Memorial Fund XV., 62; XVII., 320
- Freights: Denmark to Great Britain XI., 95
 Live stock and meat, cost of transporting XVI., 1015
 Live stock to South Africa XVI., 747
 United States, on grain XI., 147; XIV., 300
- Frost: Protection of fruit from XIII., 57, 184, 375; XIV., 23;
 XV., 521; XVI., 1024; XVII., 558
- Fruit (see also *Apples*, *Pears*, etc.): Bees, action in pollination XVII., 974
 Birds and fruit growers XIII., 504, 665, 719
 Birds, protection of bushes against XII., 629, 664
 Blossoming of fruit trees XV., 678; XVII., 32
 Blue tit, protection of fruit trees against XI., 500
 Bottling XVI., 1025; XVII., 194, 977
 Cold storage XI., 174, 624
 Committee on Fruit Industry XII., 235, 693
 Cross-fertilisation XV., 204, 683; XVII., 974
 Cultivation on small holdings XV., 6, 87, 327
 Diseases of fruit and fruit-bearing plants, diagrams, note as
 to issue XIII., 626
 Drying or evaporating XII., 756
 Experiments XI., 625; XII., 489; XV., 959; XVI., 938, 941, 1023
 Farming in West Kent XVII., 811
 Frost: protection from XIII., 57, 184, 375; XIV., 23; XV., 521;
 XVI., 1024; XVII., 558
 Fumigation of trees with hydrocyanic acid gas XII., 496
 Grafting fruit trees XII., 1, 523; XVI., 836, 1023
 Grease banding of fruit trees XVII., 542
 Hereford Co-operative Fruit Grading Society XIII., 174
 Home Office Order as to persons engaged in preserving XIV., 503
 Injury to. See *Insects* and *Fungi*.
 Manuring of fruit trees XI., 625; XII., 171, 436, 559; XVI., 834,
 941, 1025
 Marketing wild fruits XV., 518
 Markets, establishment of XIII., 431
 Mineral content of leaves of fruit trees XVII., 933
 Orchard and bush fruit pests in 1906 XIII., 705
 Orchards, experimental XI., 747
 Orchards, treatment of neglected XVI., 832
 Packing and grading XI., 589
 Planting fruit trees and bushes... .. XI., 48, 432, 449, 581; XV., 937
 Pollen, germination of XVI., 586
 Pollination XV., 204, 683; XVII., 974
 Preservation of ripe fruit XII., 305; XIII., 562
 Production in Germany, France, and Holland XV., 414
 Production in Wisbech district XV., 777; XVII., 519

Fruit (*continued*)—

Pruning : Fruit trees	XI., 522 ; XV., 22 ; XVI., 199, 290, 836, 1023
Newly planted trees	... .. XIII., 660
Young trees ...	... .. XIV., 705
Pulp, preparation of	... .. XI., 621 ; XII., 112
Railway rates ...	... .. XVI., 191
Rating of orchards	... .. XII., 687
Regrafting of fruit trees	... .. XVI., 836
Replanting of fruit trees	... .. XVI., 837
Roadside planting of fruit trees	... .. XI., 497 ; XIV., 118
Root pruning	... .. XVI., 290
Small fruit growing in Kent	... .. XVI., 628
Spraying fruit trees	... .. XI., 641 ; XII., 8, 660 ; XIII., 623 ; XVI., 496, 793
Summaries of experiments	... .. XV., 959 ; XVI., 1023
Telephones in rural districts	... .. XII., 693 ; XIII., 226, 747
Trade in July, 1910	... .. XVII., 430
Trade in the Metropolis...	... .. XVII., 252
Training and pruning fruit trees and bushes...	... .. XI., 522, 585
Weather and flowering of fruit trees	... .. XIV., 744
Winter washing	... .. XI., 588, 645 ; XIV., 682 ; XVI., 832
Woburn Experimental Fruit Farm, Report	... .. XI., 625 ; XII., 489, XV., 55, 937
<i>Brazil</i> , export of fruit	... .. XVII., 242
<i>Canada</i> , Fruit Marks Act	... .. XIV., 304
<i>France</i> : Fruit culture in Normandy	... .. XV., 611
Fruit trade	... .. XV., 770 ; XVII., 502
Preparation of pulp	... .. XI., 621
<i>United States</i> , Colorado fruit industry	... .. XV., 519

Fruit and Cider Institute, National ... XII., 321, 522 ; XIII., 656

Fungi : American Gooseberry mildew (*Sphaerotheca mors-urae*)... XIII., 560 ;
XIV., 44, 104, 300, 371, 449, 504, 544, 550,
564, 624, 695 ; XV., 387, 466, 548, 713, 779,
876 ; XVI., 117, 230, 847 ; XVII., 233, 300,
324, 675, 758, 992.

Amethyst agaric (<i>Tricholoma nudum</i>)...	... .. XVII., 127
Apple rot (<i>Glæosporium fructigenum</i>)...	... .. XIII., 563
Apple scab (<i>Fusicladium dendriticum</i>)	XI., 303, 684 ; XV., 182, 304
Apple-tree mildew (<i>Podosphaera leucotricha</i>)	XIV., 358 ; XVII., 300
Asparagus rust (<i>Puccinia asparagi</i>)	... .. XVII., 835
Bacterial disease of ash bark	... .. XVII., 481
Bacterial disease of tomatoes	... .. XII., 300
Barley stripe. See <i>Blindness in barley</i> .	
Bean pod canker...	... .. XIII., 411
Blackleg of potatoes (<i>Bacillus phytophthorus</i>)	XII., 296 ; XVI., 646
Black rot of cabbages, turnips, etc. (<i>Pseudomonas cam-</i> <i>pestris</i>)	... .. XIV., 228
Black scab of potatoes. See <i>Wart Disease</i> .	
Black spot. See <i>Apple Scab</i> .	
Black stripe of tomatoes (<i>Macrosporium tomato</i> and <i>Macro-</i> <i>sporium solani</i>)...	... .. XIII., 369, 472
Bleeding agaric (<i>Agaricus hæmorrhoidarius</i>)	... .. XVI., 1009
Blewits (<i>Tricholoma personatum</i>)	... .. XVII., 126
Blindness in barley, oats, and wheat (<i>Helminthosporium</i> <i>gramineum</i>)	... .. XII., 347 ; XIV., 416, 480, 670 ; XV., 957
Blindness in oats (<i>Helminthosporium teres</i>)	... .. XIV., 356
Brown rot of the tomato	... .. XVI., 1012
Bulbous agaric (<i>Amanita mappa</i>)	... .. XVII., 301
Bunt and smut	... .. XIV., 487
Canker fungus and woolly aphis	... .. XIII., 55
Celery leaf blight (<i>Cercospora apii</i>)	... .. XIV., 417
Celery leaf scorch (<i>Septoria petroselinii</i>)	XIV., 481 ; XV., 604 ; XVI., 1010
Celery leaf diseases	... .. XVI., 1010

Fungi (continued)—

- Cherry leaf scorch (*Gnomonia erythrostoma*) ... XIV., 334
 Chocolate agaric (*Lepiota emplastra*) ... XVII., 46
 Chrysanthemum rust (*Puccinia chrysanthemi*) XIV., 558; XV., 752
 Clover mildew (*Peronospora trifoliorum*) ... XIV., 163
 Clover sickness ... XIV., 223; XV., 957; XVI., 858
 Collar fungus ... XVI., 34
 Collar rot (*Agaricus melleus*) ... XIII., 111, 115
 Common mushroom (*Agaricus campestris*) ... XVI., 920
 Coral-spot (*Nectria cinnabarina*) ... XI., 202; XVI., 297
 Corky scab of potatoes (*Spongospora scabies*)... XV., 509, 592, 751; XVI., 642; XVII., 215
 Crown-gall (*Dendrophagus globosus*) ... XVII., 617, 761
 Cucumber and tomato canker (*Mycosphaerella citrullina*) ... XVI., 579; XVII., 216
 Cucumber leaf blotch or "spot" disease (*Cercospora melonis*) XII., 19
 Currant black-knot (*Plowrightia ribesia*) ... XVII., 215
 "Damping off" of seedlings ... XV., 438
 Destructive Insects and Pests Act, 1907 ... XIV., 222
 Orders ... 1908, XV., 304; 1910, XVII., 233
 "Die-back" disease of gooseberry (*Sclerotinia*) ... XVII., 1
 Diseases of forest trees, diagrams, note as to issue ... XI., 761
 " " fruit and fruit-bearing plants, diagrams, note as to issue ... XIII., 626
 Dry rot of potatoes (*Fusarium solani*)... ... XVI., 858
 Dry scab of potatoes (*Spondylocadium atrovirens*) XVI., 31, 125, 297
 Edible and poisonous fungi ... XVI., 919, 1009; XVII., 45, 126, 217, 240, 301, 387, 475
 Edible boletus (*Boletus edulis*) ... XVII., 218
 Ergot of rye ... XIV., 558
 "Evergood" potatoes, disease of ... XII., 294
 Fairy rings (*Lycoperdon polymorphum*) XIV., 296, 537; XV., 604
 Fig-tree disease (*Libertella ulcerata*) ... XVII., 47
 Finger and toe ... XII., 161; XV., 958; XVI., 856
 Fly agaric (*Amanita muscaria*) ... XVII., 387
 Foot rot of wheat (*Ophiobolus graminis*) ... XI., 154; XIV., 355
 Fungus on willows (*Melampsora*) ... XIV., 295
 Funnel mushroom (*Clitocybe maxima*) ... XVII., 127
 Glutinous agaric (*Volvaria gloiocephala*) ... XVII., 475
 Gooseberry and currant leaf-spot (*Gleosporium ribis*) ... XI., 303; XIV., 164; XV., 439
 Gooseberry black-knot (*Plowrightia ribesia*) ... XIV., 680
 Gooseberry cluster-cups (*Puccinia pringsheimiana*) ... XIV., 164, 428
 Gooseberry collar fungus ... XVI., 34
 Great puffball (*Lycoperdon giganteum*) ... XVII., 217
 Heart rot of beet, mangold and swede (*Sphaerella tabifica*) ... XI., 488; XII., 37, 596
 Hollyhock rust (*Puccinia malvacearum*) ... XV., 689
 Horse mushroom (*Agaricus arvensis*) ... XVI., 920
 Hop mildew (*Sphaerotheca humuli*) ... XVII., 184
 Horn-of-plenty (*Craterellus cornucopioides*) ... XVII., 217
 Hybernating mycelium, spread of fungus diseases by ... XIII., 232, 257, 472
 International plant protection, new journal for ... XV., 303
 Larch canker (*Dasyscypha calycina*) ... XII., 307, 722; XIV., 551
 Larch rust (*Melampsora laricis*) ... XVII., 50
 Lime-sulphur wash as a fungicide ... XV., 522; XVI., 408
 Lucerne, a disease of (*Urothlyctis alfalfae*) ... XIII., 51
 Mildew in swedes ... XV., 958
 Mildew on Euonymus ... XIV., 357
 Mildew on oak leaves ... XV., 440
 Mildew, spraying mixture for ... XV., 357
 Morel, the common (*Morchella esculenta*) ... XV., 431

Fungi (continued)—

Mushroom disease (<i>Hypomyces perniciosus</i>)	...	...	...	XII., 47
Mushrooms, edible	...	...	...	XVI., 919
Onion mildew (<i>Peronospora schleideni</i>)	...	...	...	XIII., 230
Parasitism in fungi, origin of	...	...	...	XI., 152
Parasol mushroom (<i>Lepiota procera</i>)	...	...	...	XV., 839
Peach leaf-curl (<i>Exoascus deformans</i>)	...	XI., 239, 642 ;	XIII., 176		
Pear scab (<i>Fusicladium pirinum</i>)	...	...	...	XI., 684
Pine disease (<i>Diplodia pinea</i>)	...	...	...	XIV., 164
Plane leaf-scorch (<i>Gloeosporium nervisequum</i>)	...	...	...	XIV., 222
Potato bacteriosis (<i>Bacillus solanacearum</i>)	...	...	...	XVII., 297
Potato disease (<i>Phytophthora infestans</i>)	...	XI., 284, 676 ;	XIV., 481		
Potato disease, a new (<i>Sphaerella tabifica</i>)	...	...	...	XII., 37, 596
Potato disease and potato leaf-curl, perpetuation of	XIII., 232, 257, 472				
Potato leaf blotch (<i>Sporidesmium solani varians</i>)	...	...	...	XVI., 646
Potato leaf curl (<i>Macrosporium solani</i>)	...	XII., 476 ;	XIII., 472 ;		
			XIV., 466		
Potato leaf-curl and other diseases in Germany	...	...	...	XV., 205, 457
Potato scab (<i>Oospora scabies</i>)	...	XI., 734 ;	XV., 749, 958 ;	XVII., 64	
Powdery mildew of peach and cherry (<i>Podosphaera oxyacanthae</i>)	...	...	...	XVII., 652
Powdery mildew of the vine (<i>Uncinula spiralis</i>)	...	...	...	XI., 497
Purple agaric (<i>Cortinarius purpurascens</i>)	...	...	...	XVII., 476
Raspberry mildew (<i>Phyllactinia coryles</i>)	...	...	...	XV., 509
Rose mildew (<i>Sphaerotheca pannosa</i>)	...	XIV., 357, 744 ;	XV., 440		
Rose rust (<i>Phragmidium subcorticatum</i>)	...	XIV., 357 ;	XV., 439		
Rust on oats (<i>Puccinia glumarum</i>)	...	...	...	XV., 510
Rust on thistles (<i>Puccinia suaveoleus</i>)	...	...	...	XIV., 296
Rust on wheat (<i>Puccinia graminis</i> and <i>Puccinia glumarum</i>)	...	...	...	XV., 241
Scaly agaric (<i>Lepiota rachodes</i>)	...	...	...	XVII., 45
Sclerotinia (<i>Botrytis</i>) disease of the gooseberry	...	...	...	XVII., 1
Sclerotium disease	...	...	...	XI., 555
Scots pine, disease of	...	...	...	XIII., 115
Shaggy caps (<i>Coprinus comatus</i>)	...	...	...	XVI., 1009
Sheathed agaric (<i>Amanitopsis vaginata</i>)	...	...	...	XVII., 45
Shield agaric (<i>Lepiota clypeolaria</i>)	...	...	...	XVII., 387
Shot-hole fungus (<i>Cercospora circumscissa</i>)	...	XIV., 221 ;	XV., 440 ;		
			XVII., 211		
Silver leaf	...	...	...	XIV., 221
Sleepy disease of tomatoes (<i>Fusarium lycopersici</i>)	...	XI., 300 ;	XIII., 101		
"Slime flux" on beech trees	...	...	...	XIII., 181
Smut and bunt (<i>Ustilago</i> and <i>Tilletia</i>)	...	XI., 214 ;	XII., 289, 669 ;		
		XIII., 257, 289 ;	XIV., 487 ;	XVII., 935	
"Sprain" in potatoes	...	...	...	XVI., 33, 647
Stem rot of potatoes (<i>Bacillus phytophthorus</i>)	...	XII., 296 ;	XVI., 646		
Strawberry leaf spot (<i>Sphaerella fragariae</i>)	...	XIII., 498 ;	XVII., 476		
Strawberry mildew (<i>Sphaerotheca castagnei</i>)	...	XIII., 498 ;	XIV., 295		
Straw blight in wheat (<i>Ophiobolus graminis</i>)	...	...	...	XIV., 355
Sulphuric acid as a fungicide	...	...	...	XIV., 504
Summaries of experiments	XV., 957 ;	XVI., 856, 935
Swedes, mildew of	...	...	...	XIV., 671
Sycamore leaf blotch	...	...	...	XIV., 106
Tomato and potato bacteriosis (<i>Bacillus solanacearum</i>)	...	...	...	XVII., 297
Tomato canker (<i>Mycosphaerella citrullina</i>)	...	XVI., 579 ;	XVII., 216		
Tomato disease, a new (<i>Septoria lycopersici</i>)	...	...	...	XV., 111, 752
Tomato leaf rust (<i>Cladosporium fulvum</i>)	XIV., 481 ;	XV., 357 ;	XVI., 390		
Tomatoes, soil sterilisation for sleepy disease of	...	...	...	XIII., 101
Tomatoes, potato disease on (<i>Phytophthora infestans</i>)	...	...	...	XIV., 481
Tree root rot (<i>Armillaria mellea</i>)	...	XIII., 111, 115 ;	XVI., 34		
Tree-strangling fungus (<i>Thelephora lacinata</i>)	...	...	...	XII., 690
Tufted mushroom (<i>Agaricus elvensis</i>)	...	...	...	XVI., 921
Turnip rot (<i>Sphaerella tabifica</i>)	...	...	...	XI., 488

Fungi (continued)—

- Verdigris agaric (*Stropharia aeruginosa*) XVII., 476
 Vine mildew in S. Africa (*Plasmopara viticola*) XV., 457
 Violet root-rot (*Rhizoctonia violacea*) ... XII., 667; XV., 120; XVI., 645; XVII., 50
 Wart diseases of potatoes (*Chrysophlyctis endobiotica*) ... XIII., 441; XIV., 119; XV., 548, 604, 671, 704, 749; XVI., 503, 762, 845, 923, 936; XVII., 46, 556, 993
 Warty agaric (*Amanita pantherina*) XVII., 302
 Warty caps (*Amanita rubescens*) XVI., 1009
 Wheat fungus (*Ophiobolus graminis*) XI., 154; XIV., 355
 White rot of vines (*Coniothyrium diplodiella*)... .. XI., 434; XII., 494
 White root rot (*Rosellinia necatrix*) XVI., 389
 White rust of cabbages (*Cystopus candidus*) XII., 480
 White rust on salsify (*Cystopus tragopogonis*) XIV., 356
 Winter rot of potatoes (*Nectria solani*) XI., 676; XIII., 739; XVI., 647
 Witches' broom (*Aecidium elatinum*) XI., 242
 Yellow stripe of narcissus XV., 47
Aecidium elatinum XI., 242
Aecidium punctatum XV., 203
Agaricus arvensis... .. XVI., 920
Agaricus campestris XVI., 920
Agaricus elvensis... .. XVI., 921
Agaricus haemorrhoidarius XVI., 1009
Agaricus melleus XIII., 111, 115
Aldrigea gelatinosa XVII., 216
Amanita mappa XVII., 301
Amanita muscaria XVII., 387
Amanita pantherina XVII., 302
Amanita phalloides XV., 600
Amanita rubescens XVI., 1009
Amanitopsis vaginata XVII., 45
Armillaria mellea... .. XIII., 111, 115; XVI., 34
Bacillus phytophthorus XII., 296; XVI., 646
Bacillus solanacearum XVII., 297
Badhamia... .. XV., 120
Boletus edulis XVII., 218
Botrytis cinerea XI., 242; XIV., 295, 558; XV., 357
Botrytis of gooseberry XVII.,
Capnodium footii XIV., 417
Cercospora apii XIV., 417
Cercospora circumscissa XIV., 221; XV., 440; XVII., 211
Cercospora melonis XII., 19
Chrysophlyctis endobiotica XIII., 441; XIV., 119; XV., 548, 604, 671, 704, 749; XVI., 503, 762, 845, 923, 936; XVII., 46, 556, 993
Cladosporium epiphyllum XIV., 622
Cladosporium fulvum XIV., 481; XV., 357; XVI., 390
Cladosporium herbarum XVI., 476
Cladosporium roesleri XV., 441
Clitocybe maxima... .. XVII., 127
Coniothyrium diplodiella... .. XI., 434; XII., 494
Coprinus comatus XV., 508; XVI., 1009
Cortinarius purpurascens XVII., 476
Craterellus cornucopioides XVII., 217
Cronartium ribicola XIV., 480; XV., 689
Cystopus candidus XII., 480
Cystopus tragopogonis XIV., 356
Cytosporina ribis XVI., 34
Dasyyscypha calycina XII., 307, 722; XIV., 551

Fungi (continued)—

<i>Dendrophagus globosus</i> ...	...	...	...	...	XVII., 617, 761
<i>Didymella applanata</i> ...	...	...	...	...	XIV., 163
<i>Diplodia pinea</i> ...	...	...	...	...	XIV., 164
<i>Eutypella prunastri</i> ...	...	...	...	...	XV., 689
<i>Evernia prunastri</i> ...	...	...	...	...	XIV., 744
<i>Exoascus deformans</i> ...	...	...	...	XI., 239, 642; XIII., 176	
<i>Fusarium lycopersici</i> ...	...	...	...	XI., 300; XIII., 101	
<i>Fusarium solani</i> ...	...	...	...	...	XVI., 858
<i>Fusarium tubercularioides</i> ...	...	...	...	...	XIV., 685
<i>Fusicladium dendriticum</i> ...	...	...	XI., 303, 684; XV., 182, 304		
<i>Fusicladium pirinum</i> ...	...	...	...	...	XI., 684
<i>Gloeosporium fructigenum</i> ...	...	...	...	...	XIII., 563
<i>Gloeosporium nervisequum</i> ...	...	...	...	...	XIV., 222
<i>Gloeosporium ribis</i> ...	...	...	XI., 303; XIV., 164; XV., 439		
<i>Gnomonia erythrostoma</i> ...	...	...	...	...	XIV., 334
<i>Gummosis</i> ...	...	...	...	...	XIV., 297
<i>Gymnosporangium clavariaeforme</i> ...	...	...	...	...	XV., 119, 509
<i>Helminthosporium gramineum</i> ...	...	...	XII., 347; XIV., 416, 480, 670; XV., 957.		
<i>Helminthosporium teres</i> ...	...	...	...	...	XIV., 356
<i>Herpotricha nigra</i> ...	...	...	...	...	XII., 177
<i>Hypochnus solani</i>...	...	...	...	...	XVI., 645
<i>Hypomyces perniciosus</i> ...	...	...	...	...	XII., 47
<i>Lepiota clypeolaria</i> ...	...	...	...	...	XVII., 387
<i>Lepiota emplastra</i> ...	...	...	...	...	XVII., 46
<i>Lepiota procera</i> ...	...	...	...	...	XV., 839
<i>Lepiota rachodes</i> ...	...	...	...	...	XVII., 45
<i>Libertella ulcerata</i> ...	...	...	...	...	XVII., 47
<i>Lycoperdon giganteum</i> ...	...	...	...	...	XVII., 217
<i>Lycoperdon polymorphum</i> ...	...	...	...	...	XIV., 296, 537
<i>Macrosporium solani</i> ...	...	...	XII., 476; XIII., 472; XIV., 466		
<i>Macrosporium tomato</i> ...	...	...	...	...	XIII., 369, 472
<i>Marasmius oreades</i> ...	...	...	...	...	XV., 604
<i>Melampsora</i> ...	...	...	...	...	XIV., 295
<i>Melampsora laricis</i> ...	...	...	...	...	XVII., 50
<i>Morchella esculenta</i> ...	...	...	...	...	XV., 431
<i>Mycosphaerella citrullina</i> ...	...	...	...	XVI., 579; XVII., 216	
<i>Mystrosporium adustum</i>...	...	...	...	...	XV., 509
<i>Nectria cinnabarina</i> ...	...	...	...	XI., 202; XVI., 297	
<i>Nectria ditissima</i>...	...	...	...	...	XIII., 55
<i>Nectria solani</i> ...	...	...	XI., 676; XIII., 739; XVI., 647		
<i>Oidium Euonymi-japonicae</i> ...	...	...	...	...	XIV., 357
<i>Oospora scabies</i> ...	...	...	XI., 734; XV., 751, 958; XVII., 64		
<i>Ophiobolus graminis</i> ...	...	...	...	XI., 154; XIV., 355	
<i>Peniophora ochracea</i> ...	...	...	...	...	XV., 689
<i>Penicillium glaucum</i> ...	...	...	...	...	XV., 604
<i>Peronospora schleideni</i> ...	...	...	...	...	XIII., 230
<i>Peronospora trifoliorum</i>...	...	...	...	...	XIV., 163
<i>Phellomyces sclerotiphorus</i> ...	...	...	...	...	XVI., 31, 125
<i>Phoma dura</i> ...	...	...	...	...	XI., 501
<i>Phoma grossulariae</i> ...	...	...	...	...	XV., 47
<i>Phragmidium subcorticatum</i> ...	...	...	...	XIV., 357; XV., 439	
<i>Phyllactinia coryles</i> ...	...	...	...	...	XV., 509
<i>Phyllosticta apii</i> ...	...	...	...	...	XVI., 1010
<i>Phyllosticta mali</i> ...	...	...	...	...	XV., 752
<i>Phyllosticta prunicola</i> ...	...	...	...	...	XVII., 300
<i>Phytophthora infestans</i> ...	...	...	XI., 284, 676; XIV., 481; XVI., 390		
<i>Phytophthora omnicolora</i> ...	...	...	...	...	XVI., 1012
<i>Plasmopara viticola</i> ...	...	...	...	...	XV., 457
<i>Pleurococcus vulgaris</i> ...	...	...	...	...	XIV., 558
<i>Plowrightia ribesia</i> ...	...	...	...	XIV., 680; XVII., 215	

Fungi (continued)—

<i>Podospheera oxyacanthae</i>	...	...	...	...	XVII., 652
<i>Podospora leucotricha</i>	...	...	...	...	XV., 510
<i>Polyporus annosus</i>	...	...	...	...	XIII., 115
<i>Pseudomonas campestris</i>	...	...	...	...	XIV., 228
<i>Pseudopeziza ribis</i>	...	...	...	...	XIV., 357
<i>Puccinia asparagi</i>	...	...	...	...	XVII., 835
<i>Puccinia chrysanthemi</i>	...	...	...	XIV., 558 ; XV., 752	
<i>Puccinia glumarum</i>	...	...	...	...	XV., 241, 510
<i>Puccinia graminis</i>	...	...	...	...	XV., 241
<i>Puccinia malvacearum</i>	...	...	...	...	XV., 689
<i>Puccinia menthae</i>	...	...	...	...	XV., 508
<i>Puccinia pringsheimiana</i>	...	...	...	...	XIV., 164, 428
<i>Puccinia suaveoleus</i>	...	...	...	...	XIV., 296
<i>Puccinia vineae</i>	...	...	...	...	XVII., 216
<i>Pythium de Baryanum</i>	...	...	...	...	XV., 438
<i>Rhizoctonia violacea</i>	...	...	...	XII., 667 ; XV., 120 ; XVI., 645, 936 ; XVII., 50	
<i>Rhytisma acerinum</i>	...	...	...	...	XIV., 106
<i>Rhytisma punctatum</i>	...	...	...	...	XIV., 106
<i>Rosellinia necatrix</i>	...	...	...	...	XVI., 389
<i>Septoria lycopersici</i>	...	...	...	...	XV., 111, 752
<i>Septoria petroselinii</i>	...	...	XIV., 481 ; XV., 604 ; XVI., 1010		
<i>Sclerotinia (Botrytis) of the gooseberry</i>	...	...	...	...	XVII., 1
<i>Sclerotinia sclerotiorum</i>	...	...	...	...	XIV., 295
<i>Sclerotinia trifoliorum</i>	...	...	...	XIV., 223 ; XV., 605, 957	
<i>Sphaerella brassicaecola</i>	...	...	...	...	XV., 279, 441
<i>Sphaerella fragariae</i>	...	...	...	XIII., 498 ; XVII., 476	
<i>Sphaerella tabifica</i>	...	...	...	XI., 488 ; XII., 37, 596	
<i>Sphaerotheca castagnei</i>	...	...	...	XIII., 498 ; XIV., 295	
<i>Sphaerotheca humuli</i>	...	...	...	...	XVII., 184
<i>Sphaerotheca mali</i>	...	...	...	XIV., 358 ; XVII., 300	
<i>Sphaerotheca mors-urae</i> (see above, <i>American Gooseberry Mildew</i>).	...	...	...	...
<i>Sphaerotheca pannosa</i>	...	...	...	XIV., 357, 744 ; XV., 440	
<i>Spondylocidium atrovirens</i>	...	...	...	...	XVI., 31, 125, 297
<i>Spongospora scabies</i>	...	XV., 509, 592, 751 ; XVI., 642 ; XVII., 215			
<i>Sporidesmium solani varians</i>	...	...	...	...	XVI., 646
<i>Spumaria alba</i>	...	...	...	...	XVII., 216
<i>Stropharia aeruginosa</i>	...	...	...	...	XVII., 476
<i>Synchytrium endobioticum</i>	...	...	...	...	XVII., 46
<i>Thelephora lacinata</i>	...	...	...	...	XII., 690
<i>Thielavia basicola</i>	...	...	...	...	XV., 203, 439
<i>Tilletia</i> (see <i>Ustilago</i>).	...	...	...	...
<i>Tricholoma nudum</i>	...	...	...	...	XVII., 127
<i>Tricholoma personatum</i>	...	...	...	...	XVII., 126
<i>Tubercularia granulata</i>	...	...	...	...	XV., 357
<i>Uncinula spiralis</i>	...	...	...	...	XI., 497
<i>Urothlyctis alfalfae</i>	...	...	...	...	XIII., 51
<i>Ustilago</i>	...	XI., 214 ; XII., 289, 669 ; XIII., 257, 289 ; XIV., 487, XVII., 935			
<i>Venturia pomi</i> (see <i>Fusicladium dendriticum</i>).	...	...	...	...
<i>Volvaria gloiocephala</i>	...	...	...	...	XVII., 475
Furley, Kenneth G. : American gooseberry mildew in Worcestershire	...	...	...	...	XIV., 449
Gall stones, use in Japan	...	...	...	...	XV., 220
Gapes in fowls, remedy for	...	...	...	...	XIII., 368
Garlic or wild onion (<i>Allium vineale</i>)	...	...	...	...	XIV., 374
Gasworks, use of liquor from as manure	...	...	...	...	XIII., 94

Geese : Charcoal, use in fattening	XVI., 1026
Raising and fattening	XI., 458
Rearing and marketing	XIV., 81
Unthriftiness in	XV., 874
Germany, goose breeding	XV., 533
<i>Genista tinctoria</i> (Dyer's greenweed)	XIV., 375
Geological Survey : Publications	XV., 950
Soil maps	XIV., 53
Water supply of Hampshire	XVII., 407
Germany :	
Agriculture in	XVII., 766
Agriculture in Bavaria	XI., 51
Alcohol, preparation from potatoes	XI., 29, 733 ; XII., 106
American gooseberry mildew in	XV., 384, 777
Apple juice manufacture	XIV., 760
Asparagus growing in Brunswick	XIII., 154
Barley, importation of	XVII., 677
Bounties on agricultural products	XI., 100
Butter tests	XIII., 363
Calcium cyanamide production	XVI., 501
Cattle breeding	XII., 406
Chambers of Agriculture in Prussia	XIII., 362
Co-operative granaries	XI., 473
Credit Banks	XII., 100, 725
Deutsche Landwirtschaftliche Gesellschaft	XII., 55
Electric power, use on farms	XVII., 768
Feeding stuffs, demand for	XIV., 543
Fertilisers, consumption of	XVII., 590
Foot-and-mouth disease, institute for investigation	XVII., 504
Forestry	XI., 176 ; XV., 942
Forestry in Hesse and other states	XVII., 199
Fowl cholera regulations	XII., 613
Fruit and vegetable production	XV., 414
Gardening school at Dahlem	XV., 384
Goose breeding	XV., 533
Green manuring	XII., 29, 171
Holdings, number and size	XII., 407
Holdings, small	XIII., 35
Hop-growing industry of Bavaria	XVI., 36, 390
Hop industry Commission in Bavaria	XV., 949
Hop legislation	XVI., 1034
Horse-breeding in Prussia	XIII., 417
Horticultural institute at Geisenheim	XVII., 736
Insurance of live stock	XI., 26, 620 ; XV., 41 ; XVII., 765
International plant protection, new publication	XV., 303
Judging stock, method of	XI., 736
Live stock census	XII., 606 ; XVI., 213
Milk tests and milk control societies	XII., 24, 411 ; XVI., 583
Moorland reclamation and cultivation	XIV., 146 ; XVII., 205, 999
Mortality among live stock	XV., 535
Mouse plague in Bavaria	XVII., 861
Oats, drawback on exported	XVII., 501
Persons engaged in agriculture	XIV., 433 ; XVI., 766
Plant diseases, control of	XV., 842 ; XVI., 848
Investigation of	XI., 629
Planting waste lands	XV., 942
Potash deposits	XIII., 221 ; XIV., 183
Potash deposits in Alsace	XV., 141
Potash production	XVI., 767 ; XVII., 768, 1032
Potatoes, production, exports, &c.	XI., 411 ; XVII., 502
Degeneration of	XII., 671
Disease of potatoes in	XV., 205, 457

Germany (*continued*)—

- Potatoes (*continued*)—
 Drying XIII., 358 ; XIV., 568
 Trials of varieties XVI., 157
 Poultry industry XVI., 18
 Profit-sharing on a farm XIV., 503
 Protection of birds XV., 293
 Roadside planting of fruit trees XI., 497 ; XIV., 118
 Rooks and crows, food of XI., 630
 Seeds, sale of, by German Agricultural Society XVI., 180
 State aid to Agriculture XVII., 743
 Sugar beet factory in Hesse XVII., 921
 Tariff, new XII., 566
 Teachers, a course for migratory XI., 696
 Tuberculosis, suppression of XV., 500
 Warble fly, destruction of XVII., 660
 Winter schools, agricultural XIII., 691
 Women, employment in agriculture in Bavaria XVII., 765
- Gibson, H : Agricultural resources of Argentina XVI., 705
- Gilchrist, Prof. Douglas A : Agricultural education in the
 Netherlands XVI., 371
 Experiments with the milk of newly-calved cows XIV., 520
 Trials of wild white clover XVI., 713
 Use of lime XII., 400
- Gimingham, C. T. : The scouring lands of Somerset XVII., 529
- Glanders or farcy. See *Diseases of Live Stock*.
- Glebe land sales XIV., 694
- Glenny, W. W. : The fruit trade in July, 1910 XVII., 430
 The fruit trade in the metropolis XVII., 252
 The vegetable trade of London XVII., 340
- Goaring, W. : Apple culture... .. XI., 581
- Goat-keeping, advantages of... .. XIV., 711
- Gooseberries (see also *Fruit*) : Growing in Kent XVI., 631
 Licenses for removal of bushes, circular XVII., 758
 Manuring XI., 625
 Notices to purchasers of gooseberry bushes XVII., 675
 Planting XI., 449
 Spraying XI., 643 ; XII., 664
 Training and pruning XI., 522
 Varieties XI., 455
- Goosefoot (*Chenopodium album*) XVI., 207
- Government laboratory : Reports on analysis of samples at
 XI., 430 ; XIII., 306 ; XIV., 426 ; XV., 385 ; XVI., 502
- Grain. See *Corn, Wheat, Barley, &c.*
- Grain-drying sheds XIV., 513
- Grains, weighing of wet XI., 682
 Brewers' grains for feeding XIV., 87 ; XVI., 753
- Granaries, co-operative in Germany XI., 473
- Grass (see also *Pasture, Hay, Clover*) : Effect on fruit trees
 XII., 558 ; XIV., 42 ; XV., 123, 959 ; XVI., 939
 Mixture for bowling green XIV., 759
 Rye grass XI., 105, 418
- Grease-banding of fruit trees XVI., 126 ; XVII., 542
- Greaves as manure XIII., 67

Greece : British pedigree cattle in	XI., 165
Small holdings in	XVII., 414
Green manuring ...XII., 29, 171 ; XIV., 231 ; XV., 516, 708; XVI., 406 ; XVII., 750	
For forest trees	XII., 173
Value of different crops for	XVII., 969
Green woodpecker, injury to trees by	XI., 693
"Greening" of potatoes	XVI., 177 ; XVII., 46
Greig, R. B. : Improvement of crops by selection	XVII., 379
Milling properties of oats	XIV., 257
Grellier, Gordon H. : Mint growing for the essential oil	XV., 348
Small holdings in Surrey	XVII., 9
Grey, Earl : Agricultural education in Canada	XIII., 29
Grenada : Importation of live stock	XVII., 761
Grouse Disease, Committee on	XII., 119
Guinea fowl, the	XII., 533
Gull, food habits of the blackheaded	XIV., 410
Güssow, H. T. : A new tomato disease	XV., 111
Hair as manure	XIII., 68
Hall, A. D. : Bare fallows	XIII., 1
Conservation of the fertility of the soil	XVII., 114
Cucumber leaf blotch or "spot" disease	XII., 19
Experimental error in field trials, the	XVI., 365
Experiments with calcium cyanamide	XIII., 216 ; XIV., 652
Farmyard manure	XV., 7, 161, 568
Growth of sugar beet	XI., 577
How long does lime last in the soil ?	XIII., 321
New nitrogenous fertilisers—calcium cyanamide and nitrate of lime	XVI., 1006
Quality of English wheat	XI., 321
Value of different crops as green manures	XVII., 969
Winter and the wheat crop	XI., 716
Hampshire Farm School, Basing : Education at	XIII., 656
Hampshire : Small holdings	XV., 83
Strawberry growing in... ..	XVI., 186
Water supply	XVII., 407
Hams, caution as to misdescription	XIV., 673
Hardie, W. : Destruction of weeds by surface cultivation	XI., 193
"Hard-tongue" in cattle	XIV., 490 ; XV., 331
Harness making, rye straw for	XVII., 131
Harper-Adams Agricultural College : Education at	XIII., 651
Harris Institute, Preston, education at	XIII., 649
Harris, J. Nugent : Organisation of the milk supply	XVI., 810
Harvest wages	1904, XI., 502 ; 1906, XIII., 502 ; 1907, XIV., 493 ; 1908, XV., 701
Harvest weather forecasts	XII., 120 ; XIII., 182 ; XIV., 180 ; XV., 219, 535 ; XVI., 149 ; XVII., 407
Harvesting : Employment of soldiers for	XI., 307
Expenses of corn harvesting	XV., 729

- Hay (see also *Clover and Pasture*) : Experiments on hay in the rick XVII., 583;
 Hay collector or sweep-rake XI., 485
 Heating or fermentation of ricks XI., 416 ; XV., 221
 Manuring of seeds-hay XII., 160 ; XIV., 487 ; XV., 783 ; XVI., 590 ;
 XVII., 402
 Meadow hay and oat straw, comparative feeding values ... XVII., 929
 Method of drying in Sweden XIV., 417
 Seeding of temporary hay XVI., 589
 Summary of experiments XVI., 590
 Use of condiments in inferior XVII., 390
- Heather for thatching XVI., 470
- Hedgehogs XV., 704
- Hedgerow timber XII., 129
- Hedges and fences XII., 65
- Hedges : Renewing old XII., 416
 Trimming XIV., 630
- Hedging, instruction in XIII., 750
- Hegelund method of milking XII., 170
- Helicidae* (snails) XI., 594, 650
- Hemp, bounties in France XI., 108
- Henry, T. A. : Poisonous properties of *Phaseolus lunatus* ... XIV., 722
- Henshaw, Henry : Experiments in potato growing XVII., 892
- Herbage of pastures, composition of XIV., 735
- Hereford Co-operative Fruit Grading Society XIII., 174
- Herring flour as cattle food XVI., 769
- Hertfordshire, historical monuments of XVII., 675
- Hewitt, C. Gordon : Large larch sawfly XV., 649
- Hides, disinfection of imported, in United States ... XIV., 438 ; XV., 66, 385 ;
 XVI., 764 ; XVII., 499
 Prevention of damage to XVII., 620
- Holdings (see also *Small Holdings*) : Agricultural Holdings Act,
 1908 XVI., 113
 Number in Great Britain XIV., 50
Denmark, number and size XI., 144
- Holland : Agricultural education XVI., 371
 Bulb trade XVI., 145
 Butter legislation XIII., 687 ; XVI., 942
 Butter making in XVII., 412
 Draining the Zuyder Zee XIV., 439
 Export of horses to, from Great Britain XVII., 149
 Export of meat XVI., 228
 Fruit and vegetable production XV., 297, 421
 Insurance of live stock XV., 34
 New market for English cider XII., 577
 Osier cultivation XIV., 47
 Planting waste lands with trees XV., 860
 Sugar beet industry XVII., 920
 Tuberculosis, suppression of XV., 498
- Holmes Chapel College of Agriculture : Education at XIII., 649
- "Home Counties" : Advantages of goat keeping XIV., 711
- Home-grown Wheat Committee, experiments XII., 156, 471 ; XIII., 469 ;
 XIV., 484 ; XVI., 65 ; XVII., 741

- Home Office : Fruit Preserving Order ... XIV., 503
 Workmen's Compensation Act, 1906 ... XIV., 285
- Honeycomb, diseased ... XIV., 622
- Honey (see also *Bees*), preparation for market ... XI., 721
- Hoofs and horns as manure ... XIII., 68
- Hooper, Cecil H. : Fruit farming in West Kent ... XVII., 811
 Notes on the time of blossoming of fruit trees XV., 678 ; XVII., 32
 Some notes on the food of birds ... XIV., 402
 Small fruit growing in Kent ... XVI., 628
- Hooper, Geoffrey F. : Commercial cultivation of the loganberry XVII., 552
 Prevention of damage to fruit by frost ... XIV., 23
- Hop-pickers, lodging and accommodation ... XIV., 109
- Hops : Committee on Hop Industry, report ... XV., 363
 Cultivation ... XVI., 881
 Hop-shoots as a vegetable ... XVI., 851
 Insect and allied pests ... XVI., 555, 618, 937
 Legislation, foreign and colonial ... XVI., 1034
 Picking by machinery ... XVI., 145, 849 ; XVII., 328
 Picking, drying, and packing ... XVII., 89
 Pollination, importance of ... XI., 545
 Summary of experiments ... XVI., 1026
 Training systems ... XVI., 890
 Washing ... XVI., 897, 937
Germany, hop-growing industry in Bavaria ... XV., 949 ; XVI., 36,
 390, 1039
Poland, Warsaw hop fair ... XVI., 329, 682 ; XVII., 679
United States, hop growing in California ... XV., 67 ; XVI., 145, 328,
 849 ; XVII., 328
 Area and yield ... XVI., 1013
- Horse-tail, marsh ... XIII., 378
- Horses (see also *Live Stock* and *Diseases of Live Stock*) :
 Army : Farming out of ... XVI., 321
 Types of stallions required for breeding ; theory of the
 four stallions ... XVI., 992
 Army remounts ... XV., 325 ; XVI., 239
 Breeding scheme, statement by Lord Carrington ... XV., 321
 Census of production, horse-breeding return for ... XVI., 62
 Co-operative breeding in Northumberland ... XI., 357
 Co-operative insurance ... XIV., 275
 Dried sugar beet for fodder ... XI., 739
 Exportation to Belgium or the Netherlands ... XVII., 149
 Export from Great Britain, regulations ... XVII., 588
 Import regulations of foreign countries. See *Import Regulations*.
- Light horse breeding : Advisory council on horse breeding ... XVII., 936
 Exhibition of stallions at Royal Agricultural Hall ... XVII., 942
 Grant from Development Fund ... XVII., 841
 Memorandum as to duties of County Committees in
 relation to horse breeding ... XVII., 937
 Memorandum for the guidance of District Committees XVII., 1021
 Regulations and conditions of nomination and service
 of mares by King's Premium and Board's Premium
 stallions ... XVII., 1024
 Regulations and conditions of service for King's
 Premium and Board's Premium stallions ... XVII., 1022
 Regulations for annual registration of stallions ... XVII., 1020
 Thoroughbred stallions, premiums for ... XVII., 859
- Mallein test ... XIV., 424
 Mortality, average ... XIV., 488
 Rome, horse-jumping competition ... XIV., 760

Horses (*continued*)—

Royal Commission on horse breeding	XV., 206
Shoeing	XV., 909
<i>Bavaria</i> , insurance of	XI., 26
<i>Belgium</i> , breeding in	XI., 21
<i>Brazil</i> , breeding in	XVII., 766
<i>Ireland</i> , improvement scheme	XVII., 478
<i>Japan</i> , breeding in XII., 760 ; XIII., 376 ;	XVII., 154
<i>Prussia</i> , breeding in	XIII., 417
<i>Switzerland</i> , improvement scheme	XVI., 851
<i>United States</i> , registration of stallions in Wisconsin ...	XIII., 685
<i>Victoria</i> , registration of stallions	XV., 291
State aid to breeding	XIII., 121

Horticulture : Horticultural College, Swanley, Kent, agricultural education

education	XIII., 657
Instruction, centres for	XIII., 646
John Innes Horticultural Institution	XV., 852
<i>France</i> , formation of a horticultural commission	XVI., 769
<i>Germany</i> , horticultural institute at Geisenheim	XVII., 736
<i>Holland</i> , winter schools in horticulture	XVI., 375
<i>Italy</i> , importation of horticultural produce	XVI., 228
<i>United States</i> , horticulture in Oregon and adjoining States	XVI., 768

Hot water as an insecticide

... ..	XVI., 157
--------	-----------

Housing : Accommodation for pea-pickers

... ..	XVI., 586
Norwegian Workmen's Small Holdings and Dwellings	
Bank	XVI., 945
Report on rural housing	XIII., 694
Tied cottages	XIII., 753

Hungary : Agricultural credit

... ..	XII., 210
Agricultural education	XV., 134
Agriculture in	XVI., 229
Export of flour	XVI., 229
Persons engaged in agriculture, number	XIV., 433
Wheat growing	XVII., 242

Hurst, J. W. : Breeding and rearing of turkeys

... ..	XV., 340
Poultry fattening centres	XVII., 29
Rearing and marketing of geese	XIV., 81
Sussex chicken industry	XII., 753
Sussex ground oats	XIII., 429
Sussex poultry methods	XIII., 172
Transport of Sussex poultry	XIV., 470

Hydrocyanic acid gas, formation from linseed cake XIV., 728 ; XVII., 904

Fumigation with	XII., 496 ; XIII., 370
------------------------	------------------------

Imms, A. D. : Report on a disease of bees in the Isle of

Wight	XIV., 115, 129
--------------	----------------

Implements. See *Machinery*.

Import and export regulations :

<i>Algeria</i> , live stock	XV., 764
Plants	XVI., 138
<i>Argentina</i> , cattle	XV., 535, 764 ; XVII., 500
Grass seeds	XII., 161
Horses	XIII., 168
Live stock	XI., 615 ; XII., 424
„ for Buenos Aires exhibition	XVI., 413
Lucerne seed	XIII., 632
Meat products	XIV., 364
Pedigree stock	XII., 55
Plants	XIV., 230
Poultry	XV., 291

Import and export regulations (*continued*)—

<i>Australia</i> , animals and plants...	...	...	...	...	XVI., 671
Cattle	...	...	...	...	XVII., 589
Potatoes	...	...	...	...	XVI., 764
Seeds	...	...	...	...	XVI., 324
<i>Austria</i> , marking of exported hops	...	...	...	...	XVI., 54
Live stock	...	...	...	...	XVI., 1036
<i>Austria-Hungary</i> , live stock	...	...	...	...	XIII., 490
<i>Bahamas</i> , live stock	...	...	...	...	XII., 428
<i>Barbados</i> , plants	...	...	...	...	XVI., 1036
<i>Belgium</i> , horses...	...	...	...	...	XVII., 149, 761
Live stock	...	...	...	...	XII., 365
<i>Bermuda</i> , bulbs...	...	...	...	...	XV., 874
<i>British Guiana</i> , animals	...	...	...	...	XVI., 1036
<i>Canada</i> , live stock	...	...	XI., 738; XIV., 31; XV., 449, 762;	...	XVI., 51, 136, 1034
Plants	...	...	...	...	XVII., 499
Seeds	...	...	...	...	XVII., 676
<i>Cape Colony</i> , bees	...	...	...	...	XV., 875
Bee hives, etc.	...	...	...	...	XVI., 673
Honey	...	...	...	...	XVI., 53
Live stock	...	...	XI., 680; XIII., 367; XV., 765; XVI., 52	...	
Plants	...	...	...	...	XI., 437; XIV., 229
<i>Ceylon</i> , cattle	...	...	...	...	XVI., 1035
Live stock	...	...	...	...	XIII., 367
Plants	...	...	...	...	XVI., 1036
<i>Costa Rica</i> , cattle	...	...	...	...	XVI., 943
<i>Crete</i> , potatoes	...	...	...	...	XIII., 760; XV., 619
<i>Cuba</i> , breeding cattle	...	...	...	...	XV., 533
Shorthorn cattle	...	...	...	...	XIII., 439
<i>Denmark</i> , meat for export	...	...	...	...	XV., 620
<i>Dominica</i> , plants	...	...	...	...	XVI., 1036
<i>Finland</i> , live stock	...	...	...	...	XV., 141; XVI., 52
<i>France</i> , British hams	...	...	...	...	XI., 554
Dodder and forage seeds containing dodder	...	...	...	...	XV., 303; XVII., 1030
Live stock	...	...	...	...	XII., 301, 603; XVII., 500
Machinery	...	...	...	...	XVII., 409
<i>French West Africa</i> , dogs	...	...	...	...	XV., 382
<i>Germany</i> , feeding barley	...	...	...	...	XVII., 677
Live stock	...	...	...	...	XII., 106
<i>Great Britain</i> , Canadian cattle	...	...	...	...	XII., 422
Canine animals	...	...	...	...	XVI., 220
Gooseberry and currant bushes	...	...	...	...	XIV., 564; XV., 713, 779; XVI., 63
Hay and straw	...	...	...	...	XIV., 760; XVI., 413, 1035
Horses	...	...	...	...	XIV., 489, 694; XVII., 149, 588
Live stock from United States	...	...	...	...	XVI., 52, 138
Unsound food and foreign meat...	...	...	...	...	XV., 711, 876
<i>Grenada</i> , insecticides	...	...	...	...	XVI., 139
Live stock	...	...	...	...	XVII., 761
Plants	...	...	...	...	XVI., 1036
<i>Guernsey</i> , canine animals	...	...	...	...	XVI., 1036
Potatoes	...	...	...	...	XVI., 673
<i>Holland</i> , butter	...	...	...	...	XVI., 1036
Gooseberry, currant, and raspberry bushes	...	...	...	...	XVI., 674
Horses	...	...	...	...	XVII., 149
Inspection of meat for export	...	...	...	...	XV., 534
Live stock	...	...	...	...	XIII., 420; XVI., 138
<i>Hungary</i> , live stock	...	...	...	...	XIII., 490, 559
<i>Iceland</i> , live stock	...	...	...	...	XIII., 686
<i>India</i> , live stock	...	...	...	...	XIII., 687
<i>Ireland</i> , gooseberry and currant bushes	...	...	...	...	XV., 533; XVI., 674

Import and export regulations (*continued*)—

<i>Ireland</i> , Hay and straw ... ..	... XV., 61, 140
Horses	XIII., 240, 743
Potatoes	XVII., 64
Sheep	XIV., 34
<i>Isle of Man</i> , live stock	XV., 849
Sheep	XIII., 742; XIV., 240
Swine	XIV., 33
<i>Italy</i> , live stock	XIII., 687
<i>Jamaica</i> , dogs	XVII., 153
Live stock	XIV., 33
<i>Jersey</i> , horses	XI., 165
<i>Lourenço Marques</i> , bees and honey	XVII., 64
<i>Malta</i> , live stock	XIII., 422; XV., 847
Potatoes	XV., 928
<i>Mauritius</i> , plants	XVII., 676
<i>Mexico</i> , live stock	XVII., 762
<i>Morocco</i> , fertilisers	XVII., 677
<i>Mozambique</i> , live stock	XV., 848
Plants	XV., 620
<i>Natal</i> , bees	XVI., 943
Horses	XVI., 323
Live stock	XIII., 489; XIV., 541
Pigs	XI., 424
Plants	XII., 358; XIII., 499; XVII., 500
Potatoes	XV., 929; XVI., 220; XVII., 500
<i>New South Wales</i> , live stock	XII., 44; XVI., 412
<i>New Zealand</i> , butter for export	XV., 218
Fruit	XIII., 185; XV., 219
Live stock	XII., 165
Plants	XI., 306
<i>Norway</i> , fodder	XI., 348
Live stock	XIV., 239
<i>Nyassaland</i> , potatoes	XVI., 324, 943
<i>Orange River Colony</i> , plants	XVI., 943
Potatoes	XVI., 324
<i>Panama Republic</i> , agricultural produce	XVI., 325
Cattle	XVII., 943
<i>Peru</i> , plants, &c.	XVII., 860
<i>Philippines</i> , cattle	XV., 534
<i>Portugal</i> , seeds and plants	XIV., 630
<i>Queensland</i> , live stock	XII., 604
<i>Rhodesia</i> , cattle	XIII., 686; XVI., 670
Plants	XI., 437; XIII., 433
Potatoes	XVII., 153
<i>Russia</i> , live stock	XIII., 559
Pigs	XIV., 118
Preparations for combating plant diseases	XVII., 1031
<i>St. Christopher and Nevis</i> , plants	XVI., 1037
<i>St. Lucia</i> , plants	XVI., 1037
<i>South African Protectorates</i> , bees, &c.	XVII., 499
<i>South Australia</i> , live stock	XII., 231
Plants	XV., 457; XVI., 672
Poultry	XIV., 569
<i>Spain</i> , live stock	XII., 552
<i>Swaziland</i> , live stock	XVII., 676
<i>Sweden</i> , animal products	XVII., 676
Live stock	XIV., 239; XVI., 51
Pine and fir seed	XVII., 499
Potatoes	XVII., 64
Seeds	XVI., 53, 324
Wool and various animal products	XV., 619
<i>Switzerland</i> , meat	XVII., 944

Import and export regulations (*continued*)—

<i>Tasmania</i> , live stock	XII., 750
<i>Transvaal</i> , bees, honey, and beeswax	XVI., 323, 673, 1036
Live stock	XIII., 168
Plants	XI., 184, 437, 697; XIV., 742; XVI., 412
Potatoes	XVI., 413, 673
<i>Tunis</i> , plants	XI., 184
<i>Turkey</i> , plants	XIV., 311
<i>Uganda</i> , plants... ..	XVI., 1036; XVII., 1031
<i>United States</i> , breeding stock	XI., 419; XVII., 1029
Food	XI., 31, 431
Hides... ..	XIV., 438; XV., 66, 385; XVI., 764; XVII., 499
Insect pests	XII., 163
Live stock	XIII., 365; XIV., 360; XVI., 52, 764
Meat food products	XV., 140, 619
Poultry and cattle foods	XV., 533
Seeds... ..	XVI., 54
Sheep dogs	XVII., 944
<i>Uruguay</i> , live stock	XII., 425; XVII., 677
<i>Victoria</i> , live stock	XII., 481
<i>Western Australia</i> , live stock	XII., 686; XVI., 671
Plants	XIII., 177; XVI., 672

Imports : Agricultural produce ... 1904, XI., 602; 1905, XII., 586; 1906, XIII., 615; 1907, XIV., 590; 1908, XV., 742; 1909, XVI., 838; 1910, XVII., 816, 915.

Grain in the cereal year ... 1903-4, XI., 401; 1904-5, XII., 341; 1905-6, XIII., 348; 1906-7, XIV., 348; 1907-8, XV., 427; 1908-9, XVI., 470; 1909-10, XVII., 473.

Milk and cream XII, 752; XV., 936

Wheat, twenty years' imports XI., 534

Inclosure Acts : Custody of inclosure awards XVI., 320

Incubators. See *Poultry*.

Index to the JOURNAL OF THE BOARD OF AGRICULTURE, 1894—

1903, note as to issue XVI., 412

India :

Wheat elevators XVI., 212

„ exports XI., 537

Indian corn. See *Maize*.

Industrial Alcohol Committee XII., 105

Industrial associations, directory of XIV., 310

Innes Horticultural Institution XV., 852

Inoculation : Bean crop XV., 705; XVI., 494

Clover XVII., 750

Lucerne XVII., 578, 750

Prevention of anthrax XVI., 648

Soil XI., 348, 669, 725; XII., 282, 641, 759; XVI., 494; XVII., 586.

Insecticides. See *Spraying* and *Insects*.

Insects, &c. (see also *Bees* and *Spraying*) : Ants XIV., 155

Ants, small red (*Monomorium pharaonis*) XV., 602; XVI., 921

Ants' nests, destruction of XII., 695

Aphides XI., 34, 288, 647; XIII., 711; XIV., 220, 354, 556; XV., 118, 202, 435, 507, 603; XVII., 823.

„ on ash (*Pemphigus nidificus*) XIV., 354

„ on carrots XVI., 474

„ on hops XVI., 617, 897

Insects, &c. (continued)—

Aphides on privet	...	...	...	...	...	XIV., 682
„ on swedes	...	...	...	...	...	XIV., 671
„ on willows	...	...	...	...	...	XIV., 221
Apple aphides	...	...	...	...	...	XIII., 714
Apple blossom weevil (<i>Anthonomus pomorum</i>)	...	...	...	...	XIII., 711 ; XV., 674	
Apple clear-wing borer (<i>Aegeria myopaeformis</i>)	...	...	...	...	...	XIII., 707
Apple leaf miner (<i>Lyonetia clerckella</i>)	...	...	...	...	XI., 49 ; XV., 433	
Apple sawfly (<i>Hoplocampa (Tenthredo) testudinea</i>)	...	...	...	...	XIII., 709 ; XIV., 482	
Apple sucker (<i>Psylla mali</i>)	...	...	...	...	XI., 172 ; XIII., 715 ; XVI., 934	
Asparagus beetle (<i>Crioceris asparagi</i>)	...	...	...	...	XVI., 761 ; XVII., 835	
Asparagus fly (<i>Platyparea poeciloptera</i>)	...	...	...	...	XI., 498	
Banded ash-borer beetle (<i>Neoclytus caprea</i>)	...	...	...	...	XIV., 215	
Bean aphid (<i>Aphis rumicis</i>)	...	...	...	...	XVII., 824	
Bean beetle (<i>Bruchus rufimanus</i>)	...	...	...	...	XII., 162	
Bee parasite (<i>Meloe violaceus</i>)	...	...	...	...	XI., 245	
Beetles	...	...	...	...	XIII., 711 ; XV., 687 ; XVI., 922	
Begonia mite (<i>Tarsonymus</i>)	...	...	...	...	XIV., 479	
Beneficial insects, introduction of	...	...	...	...	XII., 623, 689	
Big bud mite. See Black currant gall mite						
Black currant bud mite. See Black currant gall mite.						
Black currant fruit moth, unknown	...	...	...	...	XIII., 709	
Black currant gall mite (<i>Eriophyes ribis</i>)	...	...	...	...	XI., 435, 500 ; XIII., 585, 717 ; XIV., 56, 676 ; XV., 752	
Black currant mite. See Black currant gall mite.						
Black flies (<i>Bibionidae</i>)	...	...	...	...	XVI., 567	
Black or vine weevil (<i>Otiorhynchus sulcatus</i>)	...	...	...	...	XVI., 559	
Brassy hop flea (<i>Plectroscelis concinna</i>)	...	...	...	...	XVI., 559	
Broad-bordered white underwing moth (<i>Anarta melanopa</i>)	...	...	...	...	XIV., 291	
Brown currant scale (<i>Lecanium coryli</i>)	...	...	...	...	XIII., 716	
„ „ „ (<i>Lecanium persicae</i>)	...	...	...	...	XI., 557	
Brown scale of the gooseberry and currant (<i>Lecanium persicae</i> , var. <i>ribis</i>)	...	...	...	...	XV., 195	
Brown tail moth (<i>Porthesia chrysorrhæa</i>)	...	...	...	...	XIV., 290	
Bud moth (<i>Hedya ocellana</i>)	...	...	...	...	XIII., 707	
Buff-tip moth (<i>Pygaera bucephala</i>)	...	...	...	...	XIII., 706	
Bulb mite (<i>Rhizoglyphus echinopus</i>)	...	...	...	...	XI., 748 ; XIV., 679 ; XV., 840 ; XVI., 295	
Cabbage aphid (<i>Aphis brassicae</i>)	...	...	...	...	XVII., 825	
Cabbage butterfly (<i>Pieris brassicae</i>)	...	...	...	...	XV., 506	
Cabbage flea (<i>Haltica oleracea</i>)	...	...	...	...	XII., 298 ; XIV., 568	
Cabbage moth (<i>Mamestra brassicae</i>)	...	...	...	...	XI., 223	
Cabbage root fly (<i>Phorbia brassicae</i>)	...	...	...	...	XI., 352 ; XV., 356	
Cabbage stem weevil (<i>Baridius</i>)	...	...	...	...	XIV., 293	
Calcium sulphide as an insecticide	...	...	...	...	XIII., 376	
Carabus beetle	...	...	...	...	XIV., 217, 292	
Carnation fly (<i>Hylemyia nigrescens</i>)	...	...	...	...	XIV., 621 ; XV., 602	
Cauliflower disease of strawberries (<i>Aphelenchus fragariae</i>)	...	...	...	...	XVII., 214	
Celery stem fly	...	...	...	...	XV., 688	
Chermes on <i>Pinus nobilis</i>	...	...	...	...	XV., 603	
Cherry aphid	...	...	...	...	XIV., 354	
Cherry fruit moth (<i>Argyresthesia conjugella</i>)	...	...	...	...	XIII., 708	
Cherry stem borer (<i>Semasia woeberiana</i>)	...	...	...	...	XVII., 828	
Chrysanthemum leaf mining fly (<i>Phytomyza geniculata</i>)	...	...	...	...	XIV., 217, 556 ; XVII., 49	
Clay-coloured weevil (<i>Otiorhynchus picipes</i>)	...	...	...	...	XVI., 476, 558	
Clearwing moth (<i>Sesia apiformis</i>)	...	...	...	...	XV., 432	
Click beetle larvæ (wireworms)	...	...	...	...	XVI., 556, 936	
Clover midge (<i>Cecidomyia trifolii</i>)	...	...	...	...	XVII., 215	
Clover-seed weevil (<i>Apion</i>)	...	...	...	...	XV., 601	
Cockchafer (<i>Melolontha vulgaris</i>)	...	...	...	...	XI., 558 ; XVI., 562	
Cockroaches (<i>Periplaneta</i>)	...	...	...	...	XV., 45, 751	
Codling moth (<i>Carpocapsa pomonella</i>)	...	...	...	...	XI., 303 ; XIII., 705 ; XVII., 758	

Insects, &c. (continued)—

Colorado beetle (<i>Leptinotarsa</i> [<i>Doryphora</i>] <i>decemlineata</i>)	...	XI., 435 ; XVI., 915
Corn sawfly (<i>Cephus pygmaeus</i>)	...	XIV., 478
Cottony cushion scale (<i>Pulvinaria vitis</i>)	...	XV., 507
Cricket on vines (<i>Gryllus domesticus</i>)	...	XV., 278
Currant blister aphid (<i>Rhopalosiphum ribis</i>)	...	XIII., 714
Currant bud mite. See <i>Black currant gall mite</i> .		
Currant sawfly (<i>Nematus ribesii</i>)	...	XIII., 709
Daddy long-legs or crane-fly (<i>Tipula oleracea</i>)	...	XVI., 566, 763, 934
Death's Head moth (<i>Acherontia atropos</i>)	...	XV., 505
Death watch beetle (<i>Anobium domesticum</i>)	...	XIV., 352
Destructive Insects and Pests Act, 1907	...	XIV., 222
Orders	...	1908, XV., 304 ; 1910, XVII., 233
Diamond-back moth (<i>Plutella maculipennis</i>)	...	XIII., 235
Drone fly (<i>Eristalis tenax</i>)	...	XV., 200
Dust beetles (<i>Anobium tessellatum</i>)	...	XIV., 157
Earwigs (<i>Forficularia auricularia</i> and <i>Labia minor</i>)	...	XII., 542 ; XV., 201 ; XVI., 621
Eelworms	...	XIV., 219, 223, 416 ; XV., 203, 287, 507 ; XVI., 193, 555, 625 ; XVII., 214
" in mushrooms	...	XII., 755
Elm bark beetle (<i>Scolytus destructor</i>)	...	XIV., 617
Eyed hawk moth (<i>Smerinthus ocellatus</i>)	...	XIV., 213
False scorpion or chelifer	...	XV., 926
False wireworms. See <i>Millepedes</i> .		
Felted beech coccus	...	XI., 755
Fever fly (<i>Dilophus febrilis</i>)	...	XIV., 219 ; XVI., 567
Fever flies (<i>Bibionidae</i>)	...	XVI., 567
Figure-of-8 moth (<i>Diloba caeruleocephala</i>)	...	XIV., 213
Flea beetle (Turnip fly)	...	XII., 38, 541
Flour beetle (<i>Tribolium confusum</i>)	...	XI., 109
Flour mite (<i>Aleurobius farinae</i>)	...	XV., 925 ; XVI., 922
Frit fly (<i>Oscinis frit</i>)	...	XIV., 297 ; XVI., 387
Frog fly (<i>Euacanthus interruptus</i>)	...	XVI., 570
Fruit fly (<i>Ceratitis capitata</i>)	XII., 689 ; XIII., 440 ; XIV., 630, 696	
Fungus fairy fly (<i>Caecilius flavidus</i>)	...	XIV., 551
Fungus gnats (<i>Sciara</i>)	...	XIV., 162, 556
Gall flies on the oak (<i>Cynipidae</i>)	...	XVI., 293
Gall-gnats injurious to osiers and willows (<i>Cecidomyiidae</i>)	...	XII., 49, 499
Gall midges (<i>Cecidomyiidae</i>)	...	XIV., 311, 353, 415 ; XV., 435
Gall mite (<i>Eriophyes tiliae</i>)	...	XV., 277
Garden chafer	...	XV., 356
Geometrid moth caterpillar	...	XIV., 212
Ghost swift moth (<i>Hepialus humuli</i>)	...	XVI., 35, 563 ; XVII., 299
Gnats, destruction of	...	XIII., 372
Goat moth (<i>Cossus ligniperda</i>)	...	XII., 115 ; XIV., 620
Goldtail moth (<i>Porthesia auriflua</i>)	...	XIII., 706
Gooseberry aphid	...	XIII., 715
" cecid	...	XIII., 710
" scale (<i>Lecanium ribis</i>)	...	XIII., 368
Gout fly (<i>Chlorops taeniopus</i>)	...	XVI., 388
Grain weevils (<i>Calandra granaria</i> and <i>oryzae</i>)	...	XIV., 160, 412
Green-fly. See <i>Aphides</i> .		
Green leaf weevil (<i>Phyllobius maculicornis</i>)	...	XIV., 216
Green rose chafer (<i>Cetonia aurata</i>)	...	XIV., 292 ; XVI., 192
Grey trident moth (<i>Acronycta tridens</i>)	...	XIII., 707
Ground beetles (<i>Carabidae</i>)	...	XVII., 388
Hay mite (<i>Tyroglyphus longior</i>)	...	XV., 688 ; XVI., 923
Hazel-bud mite (<i>Eriophyes avellanae</i>)	...	XIV., 676 ; XVI., 127
Hessian fly (<i>Cecidomyia destructor</i>)	...	XI., 282 ; XIII., 440
Holly-leaf miner (<i>Chromatomyia ilicis</i>)	...	XIV., 218
Honey fall on fruit trees	...	XIV., 162

Insects, &c. (continued)—

Hop aphid (<i>Phorodon humuli</i>)...	...	...	...	XVI., 617
Hop cone flea (<i>Psylliodes attenuata</i>) ...	...	...	...	XVI., 561
Hop-damson aphid (<i>Phorodon humuli</i>) ...	...	...	...	XIII., 714
Hop dog (<i>Dasychira pudibunda</i>) ...	...	...	...	XVI., 563
Hop jumper (<i>Euacanthus interruptus</i>) ...	...	...	...	XVI., 570
Hop leaf miner (<i>Agromyza frontalis</i>)...	...	...	...	XVI., 568
Hop pests ...	...	...	...	XVI., 555, 617
Hop red spider (<i>Tetranychus althaeae</i>) ...	...	...	...	XVI., 623
Hop weevil (<i>Liophlaeus nubilus</i>) ...	...	...	...	XVI., 559
Horntails or wood wasps ...	...	...	...	XIV., 98
Horse bot fly (<i>Gastrophilus equi</i>) ...	...	...	...	XII., 108
Humble bee ...	...	...	...	XV., 753
Hydrocyanic acid gas, fumigation with ...	XII., 496 ;	XIII., 370		
Japanese fruit-scale (<i>Aulacaspis</i> [<i>Diaspis</i>] <i>pentagona</i>) ...	...	...	...	XV., 619
Kohl-rabi, diseased ...	...	...	...	XIV., 621
Lackey moth (<i>Clissiocampa neustria</i>)...	...	...	...	XIII., 706
Larch aphid (<i>Chermes laricis</i>) XII., 307 ;	XV., 202, 436, 603 ;	XVI., 441		
Larch canker, insect agencies as a cause of ...	...	...	...	XIV., 551
Larch miner moth (<i>Coleophora laricella</i>) ...	...	...	...	XVI., 476
Larch shoot moth (<i>Argyresthia</i> [<i>Tinea</i>] <i>laevigatella</i>)	XIV., 395 ;	XVII., 478		
Larder beetle (<i>Dermestes lardarius</i>) ...	...	...	...	XIV., 160
Large larch sawfly (<i>Nematus Erichsoni</i>) ...	XIII., 374, 385 ;	XIV., 416 ;	XV., 649 ;	XVI., 502, 981 ;
Leaf-curling plum aphid (<i>Aphis pruni</i>) ...	XIII., 712 ;	XVII., 826		
Leaf hoppers (<i>Typhlocybidæ</i>) ...	...	...	...	XIII., 716
"Leather jackets" ...	...	...	...	XI., 215 ;
Lecanium scale on ferns...	...	...	...	XV., 603
Long horned centipede (<i>Geophilus longicornis</i>) ...	...	...	...	XVI., 625
Magpie moth on euonymus ...	...	...	...	XIV., 213
Marguerite fly (<i>Napomyia lateralis</i>) ...	...	...	...	XIV., 218
Mealy bug ...	...	...	...	XV., 925
Mealy plum aphid (<i>Hyalopterus pruni</i>) ...	XIII., 713 ;	XVII., 827		
Mediterranean fruit fly (<i>Ceratitis capitata</i>) ...	XII., 689 ;	XIII., 440 ;		
	XIV., 630, 696			
Millipedes (<i>Blanjulus guttulatus</i> , etc.)	XV., 508, 750 ;	XVI., 625		
Mites ...	XIV., 108, 156, 219 ;	XV., 277, 688, 925		
Mushrooms, beetles on (<i>Staphylinidae</i> and <i>Aphodius fime-</i>				
<i>tarius</i>) ...	...	...	...	XI., 302
Mussel scale (<i>Mytilaspis pomorum</i>) ...	XIII., 623, 717 ;	XVI., 935		
Mustard beetle (<i>Phaedon betulae</i>) ...	...	...	...	XIV., 214
Narcissus fly (<i>Merodon equestris</i>) ...	...	...	...	XVI., 295
Needle-nosed hop bug (<i>Calocoris fulvomaculatus</i>) ...	...	...	...	XVI., 568
Nettle-head in hops (<i>Heterodera schachtii</i>) ...	...	...	...	XVI., 555, 625
Nun moth (<i>Ocnaria monacha</i>) ...	...	...	...	XVII., 501
Oak spangle gall ...	...	...	...	XIV., 478, 557
Oat aphides ...	...	...	...	XV., 436
Orchard pests in 1906 ...	...	...	...	XIII., 705
Otter moth (<i>Heptialis humuli</i>) ...	...	...	...	XVI., 563
Oyster shell bark scale (<i>Aspidiotus ostreaeformis</i>)	XIII., 717 ;	XIV., 614		
Pale tussock moth (<i>Dasychira pudibunda</i>) ...	...	...	...	XVI., 563
Pear leaf blister mite (<i>Phytoptus</i> (<i>Eriophyes</i>) <i>pyri</i>) ...	...	...	...	XIV., 743 ;
	XV., 277, 437 ;	XVI., 210 ;	XVII., 123, 299	
Pear leaf miner (<i>Cemiosstoma scitella</i>) ...	...	...	...	XIII., 708 ;
Pear midge (<i>Diplosis pyrivora</i>) ...	...	...	...	XIII., 710
Pear-shaped weevil (<i>Apion apricans</i>) ...	...	...	...	XV., 957
Pear thrips ...	...	...	...	XVII., 215
Pea beetle (<i>Bruchus pisi</i>) ...	...	...	...	XI., 225
„ weevil (<i>Sitones lineatus</i>) ...	...	...	...	XIV., 161
Pigmy mangold beetle (<i>Atomaria linearis</i>) ...	XV., 274, 356 ;	XVI., 388, 474		
Pine beetle (<i>Hylesinus piniperda</i>) ...	...	...	...	XIV., 217

Insects, etc. (continued)—

Pine sawfly (<i>Lophyrus pin</i>)	... ..	XVII., 478
„ weevil, banded (<i>Pissodes notatus</i>)	... ..	XI., 686
„ „ large brown (<i>Hylobius abietis</i>)	... ..	XI., 690
Pines, insects on (<i>Chermes piceae</i>)	... ..	XII., 563
Pith moth (<i>Blastodacna vinolentella</i>)	... ..	XIII., 707; XIV., 310
„ (<i>Laverna atra</i>)	... ..	XI., 649; XIII., 707
Plant lice	... ..	XI., 34; XVII., 823
On mangolds	... ..	... .. XI., 288
Plum aphid (<i>Aphis pruni</i>)	... ..	XIII., 712; XVII., 826
„ and cherry tree borer (<i>Semasia woerberana</i>)	XIII., 708; XVII., 828	
„ fruit sawfly (<i>Hoplocampa fulvicornis</i>)	XIII., 709; XVI., 385, 389	
„ weevil (<i>Otiorynchus tenebricosus</i>)	... ..	XII., 681
Poplar beetle (<i>Melosoma populi</i>)	... ..	XVI., 475
Poplar or willow longicorn beetle (<i>Superda carcharias</i>)	... ..	XVII., 480
Purples or “ear cockles”	... ..	XV., 507
Puss moth (<i>Cerura vinula</i>)	... ..	XIV., 682
Raspberry beetle (<i>Byturus tomentosus</i>)	XIII., 711; XV., 434; XVII., 49	
Red spider (<i>Tetranychus</i> and <i>Bryobia</i>)	XI., 173, 649; XIII., 718; XV., 46; XVI., 296, 319, 936	
Rose aphides	... ..	XVII., 826
Rosy rustic moth (<i>Hydraecia micacea</i>)	... ..	XV., 505
St. Mark's fly (<i>Bibio Marci</i>)	... ..	XIV., 218; XVII., 300
Sawfly on willows (<i>Nematus gallicola</i>)	... ..	XIV., 294; XVII., 479
Scale on roses (<i>Diaspis rosæ</i>)	... ..	XV., 437
Sheep maggot fly (<i>Lucilia sericata</i>)	... ..	XI., 551
Sheep nostril fly (<i>Oestrus ovis</i>)	... ..	XI., 227
Shield bug (<i>Tropicoris rufipes</i>)	... ..	XIII., 717
Shipworm (<i>Teredo</i>)	... ..	XIV., 683
Shoot and fruit moth (<i>Incurvaria capitella</i>)	... ..	XI., 170
Slugs	... ..	XIII., 718; XV., 926
Slugs and snails	... ..	XI., 594, 650; XIV., 43
Slugworm (<i>Eriocampa limacina</i>)	... ..	XIII., 709
Small larch sawfly (<i>Nematus laricis</i>)	... ..	XVII., 478
Snow flies (<i>Aleyrodes</i>)	... ..	XI., 171; XIV., 159
Spiders	... ..	XV., 603
Spotted leaf hopper (<i>Typhlocyba quercu</i>)	... ..	XIII., 716
Springtails (<i>Collembola</i>)	... ..	XIV., 557; XV., 46, 202
„ (<i>Entomobrya nivalis</i>)	... ..	XVI., 622
Starlings, destruction of insects by	... ..	XII., 163
Stem eelworm (<i>Tylenchus devastatrix</i>)	... ..	XI., 219; XII., 755; XIV., 223; XVI., 627
Store beetles (<i>Anobium paniceum</i>)	... ..	XIV., 555
Strawberry aphid	... ..	XIII., 715
„ beetles (<i>Harpalus ruficornis</i> , <i>Pterostichus vulgaris</i> , and <i>P. madidus</i>)	XII., 306; XIV., 291; XVII., 388	
Strawberry eelworm (<i>Aphelenchus fragariae</i>)	XIII., 718; XVII., 214	
Strig maggot (<i>Diplosis humuli</i>)	... ..	XVI., 565
Summaries of experiments	... ..	XV., 956; XVI., 934
Swallow tail moth	... ..	XV., 433
Swift moth (<i>Hepialus lupulinus</i>)	... ..	XIV., 352; XV., 924
Thrips in wheat (<i>Thrips cerealium</i>)	... ..	XIV., 355
„ on peas	... ..	XVI., 934
Timber, insects in (<i>Lyctus canaliculatus</i>)	... ..	XII., 621
Tineid moth (<i>Cemistoma</i> or <i>Leucoptera scitella</i>)	... ..	XVI., 475
Tineid moth (<i>Lyonetia clerkella</i>)	... ..	XI., 49; XV., 433
Tineid moth caterpillars (<i>Carcina quercana</i>)	... ..	XV., 687
Tortrix moth	... ..	XV., 355
Tortrix moth caterpillars	... ..	XIV., 162, 291, 351
Trap lanterns or insect catchers	... ..	XII., 164
Tulip mite	... ..	XI., 500
Turnip aphid (<i>Aphis rapae</i>)	... ..	XV., 603
Turnip fly	... ..	XII., 38, 541

Insects, etc. (continued)—

Turnip gall weevil	... ..	XV., 201
Turnip mud beetle (<i>Helophorus rugosus</i>)	... ..	XI., 489; XII., 102
Turnip and mustard blossom beetle (<i>Meligethes aeneus</i>)	... ..	XIV., 214
Vapourer moth (<i>Orgyia antiqua</i>)	... ..	XII., 420
Vine weevil (<i>Otiorhynchus picipes</i>)	...XIII., 711; XVI., 192,	476, 558
Vine weevil (<i>Otiorhynchus sulcatus</i>)	... ..	XVI., 559
Warble fly (<i>Hypoderma bovis</i>)	... XIII., 482; XVI., 937; XVII., 317,	621, 659
Wasps	... ..	XIV., 157
Wax moth	... ..	XV., 432
Weevils	... ..	XIV., 160, 293
Wheat bulb fly (<i>Hylemyia coarctata</i>)	... ..	XV., 840; XVI., 388
Wheat midge (<i>Cecidomyia</i> [or <i>Diplosis</i>] <i>tritici</i>)	... ..	XIV., 353, 415; XV., 924; XVI., 198
Willow beetle (<i>Galerucella lineola</i>)	... ..	XII., 51; XIV., 293; XV., 276; 601; XVI., 211; XVII., 480
Willow beetle (<i>Phratora vitellinae</i>)	... ..	XIV., 214; XV., 276
Willow beetle (<i>Phyllodecta vitellinae</i>)	... ..	XVII., 480
Willow longicorn beetle (<i>Saperda carcharias</i>)	... ..	XVII., 480
Winter moth (<i>Cheimatobia brumata</i>)	XIII., 707; XV., 200; XVI., 126	
Wireworms (<i>Elateridae</i>)	... ..	XII., 104; XIV., 554; XVI., 556, 936
Wood leopard moth (<i>Zeuzera aesculi</i>)	... ..	XII., 116; XV., 840
Wood lice	... ..	XIII., 377; XV., 277
Wood wasps	... ..	XIV., 98
Woolly aphid (<i>Schizoneura lanigera</i>)	... ..	XIII., 55, 711
Worms	... ..	XIV., 295; XV., 841
Yellow-horned sawfly (<i>Hoplocampa fulvicornis</i>)	... ..	XVI., 385, 389
<i>Acherontia atropos</i>	... ..	XV., 505
<i>Acronycta tridens</i>	... ..	XIII., 707
<i>Aegeria myopaeformis</i>	... ..	XIII., 707
<i>Agriotes lineatus</i> , <i>obscurus</i> and <i>sputator</i>	... ..	XVI., 556
<i>Agromyza frontalis</i>	... ..	XVI., 568
<i>Aleurobius farinae</i>	... ..	XV., 925; XVI., 922
<i>Aleyrodes</i>	... ..	XI., 171; XIV., 159
<i>Anarta melanopa</i>	... ..	XIV., 291
<i>Anobium domesticum</i>	... ..	XIV., 352
<i>Anobium paniceum</i>	... ..	XIV., 555
<i>Anobium tessellatum</i>	... ..	XIV., 157
<i>Anthonomus pomorum</i>	... ..	XIII., 711; XV., 674
<i>Anthonomus rubi</i>	... ..	XIII., 711
<i>Aphelenchus fragariae</i>	... ..	XIII., 718; XVII., 214
<i>Aphelenchus pyri</i>	... ..	XV., 287, 507
<i>Aphis avenae</i>	... ..	XV., 436
<i>Aphis brassicae</i>	... ..	XVII., 825
<i>Aphis fragariae</i>	... ..	XIII., 715
<i>Aphis ligustri</i>	... ..	XIV., 682
<i>Aphis pruni</i>	... ..	XIII., 712; XVII., 826
<i>Aphis rapae</i>	... ..	XV., 603
<i>Aphis rumicis</i>	... ..	XVII., 824
<i>Aphodius fimetarius</i>	... ..	XI., 302
<i>Apion</i>	... ..	XV., 601
<i>Apion apicans</i>	... ..	XV., 957
<i>Argyrethesia conjugella</i>	... ..	XIII., 708
<i>Argyresthia</i> (<i>Tinea</i>) <i>laevigatella</i>	... ..	XIV., 395; XVII., 478
<i>Aspidiotus hederæ</i>	... ..	XV., 506
<i>Aspidiotus ostreaeformis</i>	... ..	XIII., 717; XIV., 614
<i>Atomaria linearis</i>	... ..	XV., 274, 356; XVI., 388, 474
<i>Aulacaspis</i> (<i>Diaspis</i>) <i>pentagona</i>	... ..	XV., 619
<i>Baridius weevils</i>	... ..	XIV., 293
<i>Bibio Marci</i>	... ..	XIV., 218; XVII., 300
<i>Bibionidae</i>	... ..	XVI., 567
<i>Bupalium kewense</i>	... ..	XV., 841

Insects, etc. (continued)—

<i>Blanjulus guttulatus</i>	XVI., 625
<i>Bombus</i>	XV., 753
<i>Bruchus pisi</i>	XI., 225
<i>Bruchus rufimanus</i>	XII., 162
<i>Bryobia</i>	XI., 173, 649; XV., 46
<i>Bryobia pretiosa</i>	XIII., 718; XVI., 936
<i>Byturus tomentosus</i>	XIII., 711; XV., 434; XVII., 49
<i>Cecilus flavidus</i>	XIV., 551
<i>Calandra granaria</i> and <i>C. oryzae</i>	XIV., 160, 412
<i>Calathus cisteloides</i>	XVII., 388
<i>Calocoris fulvomaculatus</i>	XVI., 568
<i>Carabidae</i>	XIV., 217, 292; XVII., 388
<i>Carcina quercana</i>	XV., 687
<i>Carpocapsa pomonella</i>	XI., 303; XIII., 705; XVII., 758
<i>Cecidomyidae</i>	XII., 49, 499; XIV., 311, 353, 415; XV., 435
<i>Cecidomyia destructor</i>	XI., 282; XIII., 440
<i>Cecidomyia rosaria</i>	XVI., 475
<i>Cecidomyia trifolii</i>	XVII., 215
<i>Cecidomyia saliciperda</i>	XII., 49, 499
<i>Cecidomyid fly</i>	XVII., 479
<i>Cemiostoma scitella</i>	XIII., 708; XVI., 475
<i>Cephus pygmaeus</i>	XIV., 478
<i>Cetonia aurata</i>	XIV., 292; XVI., 192
<i>Ceratitis capitata</i>	XII., 689; XIII., 440; XIV., 630, 696
<i>Cerura vinula</i>	XIV., 682
<i>Ceutorhynchus on turnips</i>	XII., 39, 738
<i>Ceutorhynchus sulcicollis</i>	XV., 201
<i>Cheimatobia brumata</i>	XIII., 707; XV., 200; XVI., 126
<i>Chermes</i>	XV., 202, 436, 603; XVI., 441
<i>Chermes laricis</i>	XII., 307
<i>Chermes piceae</i>	XII., 563
<i>Chlorita flavescens</i>	XIII., 716
<i>Chlorita viridula</i>	XIII., 716
<i>Chlorops taeniopus</i>	XVI., 388
<i>Chromatomyia ilicis</i>	XIV., 218
<i>Chrysopa flavifrons</i>	XVII., 300
<i>Cimbex sylvarum</i>	XVII., 479
<i>Clissiocampa neustria</i>	XIII., 706
<i>Coleophora laricella</i>	XVI., 476
<i>Collembola</i>	XIV., 557; XV., 46, 202
<i>Cossus ligniperda</i>	XII., 115; XIV., 620
<i>Crioceris asparagi</i>	XVI., 761; XVII., 835
<i>Cryptococcus fagi</i>	XI., 755
<i>Cryptorrhynchus lapathi</i>	XV., 433
<i>Cynipidae</i>	XVI., 293
<i>Dactylobius citri</i> , <i>D. longispinus</i>	XV., 925
<i>Dasychira pudibunda</i>	XVI., 563
<i>Dermestes lardarius</i>	XIV., 160
<i>Diaspis rosae</i>	XV., 437
<i>Diloba coeruleocephala</i>	XIV., 213
<i>Dilophus febrilis</i>	XIV., 219; XVI., 567
<i>Diplosis aurantiaca</i>	XV., 924
<i>Diplosis humuli</i>	XVI., 565
<i>Diplosis pyrivora</i>	XIII., 710
<i>Diplosis tritici</i>	XIV., 353
<i>Elateridae</i>	XII., 104; XIV., 554; XVI., 556, 936
<i>Enchytraeid worms</i>	XIV., 219
<i>Entomobrya nivalis</i>	XVI., 622
<i>Epeira quadrata</i>	XV., 603
<i>Eriocampa limacina</i>	XIII., 709
<i>Eriophyes avellanae</i>	XIV., 219, 676; XVI., 127
<i>Eriophyes pyri</i>	XVI., 210; XVII., 123, 299

Insects, etc. (continued)—

<i>Eriophyes ribis</i>	XI., 435, 500; XIII., 585, 717; XIV., 56, 676; XV., 752
<i>Eriophyes tiliae</i>	XV., 277
<i>Eristalis tenax</i>	XV., 200
<i>Euacanthus interruptus</i>	XVI., 570
<i>Forficularia auricularia</i>	XII., 542; XV., 201; XVI., 621
<i>Galerucella lineola</i>	XII., 51; XIV., 293; XV., 276, 601; XVI., 211; XVII., 480
<i>Gastrophilus equi</i>	XII., 108
<i>Geophilus longicornis</i>	XVI., 625
<i>Glyciphagus domesticus</i>	XIV., 156
<i>Glyciphagus spinipes</i>	XIV., 156
<i>Gnominus nobilis</i>	XIV., 353
<i>Gordius</i> worms	XIV., 558
<i>Gryllus domesticus</i>	XV., 278
<i>Haltica oleracea</i>	XII., 298; XIV., 568
<i>Harpalus ruficornis</i>	XII., 306; XIII., 711; XIV., 291; XVII., 388
<i>Hedya ocellana</i>	XIII., 707
<i>Helophorus rugosus</i>	XI., 489; XII., 102
<i>Hepialus</i>	XV., 924
<i>Hepialus humuli</i>	XVI., 35, 563; XVII., 300
<i>Hepialus lupulinus</i>	XIV., 352; XV., 924
<i>Heterodera schachtii</i>	XVI., 555, 625
<i>Hoplocampa fulvicornis</i>	XIII., 709; XVI., 385, 389
<i>Hoplocampa (Tenthredo) testudinea</i>	XIII., 709; XIV., 482
<i>Hyalopterus arundinis</i>	XIII., 713
<i>Hyalopterus pruni</i>	XIII., 713; XVII., 827
<i>Hydræcia micacea</i>	XV., 505
<i>Hylemyia coarctata</i>	XV., 840; XVI., 388
<i>Hylemyia nigrescens</i>	XIV., 621; XV., 602
<i>Hylesinus piniperda</i>	XIV., 217
<i>Hylobius abietis</i>	XI., 690
<i>Hypoderma bovis</i>	XIII., 482; XVI., 937; XVII., 317, 621, 659
<i>Incurvaria capitella</i>	XI., 170
<i>Julus pulchellus</i>	XV., 508, 750
<i>Labia minor</i>	XII., 542; XV., 201; XVI., 621
<i>Laverna atra</i>	XI., 649; XIII., 707
<i>Lecanium coryli</i>	XIII., 716
<i>Lecanium persicae</i>	XI., 557
" " " var. <i>ribis</i>	XV., 195
<i>Lecanium ribis</i>	XIII., 368
<i>Lecanium scale</i>	XIV., 162
<i>Leptinotarsa (Doryphora) decemlineata</i>	XI., 435; XVI., 915
<i>Leucoptera scitella</i>	XVI., 475
<i>Liophlaeus nubilus</i>	XVI., 559
<i>Lithocolletis messaniella</i>	XVI., 296
<i>Lophyrus pini</i>	XVII., 478
<i>Lucilia sericata</i>	XI., 551
<i>Lyctus canaliculatus</i>	XII., 621
<i>Lyonetia clerckella</i>	XI., 49; XV., 433
<i>Mamestra brassicae</i>	XI., 223
<i>Megachile</i>	XIV., 118
<i>Megastigmus spermotrophus</i> on Douglas fir	XII., 615
<i>Melanthia bicolorata</i>	XVII., 299
<i>Meligethes aeneus</i>	XIV., 214
<i>Meloe violaceus</i>	XI., 245
<i>Melolontha vulgaris</i>	XI., 558; XVI., 562
<i>Melosoma populi</i>	XVI., 475
<i>Merodon equestris</i>	XVI., 295
<i>Monomorium pharaonis</i>	XV., 602; XVI., 921
<i>Mytilospis pomorum</i>	XIII., 623, 717; XVI., 935
<i>Napomyia lateralis</i>	XIV., 218

Insects, etc. (continued).—

<i>Nebria brevicollis</i> ...	...	...	...	...	XV., 275
<i>Nematus Erichsoni</i> ...	...	...	...	...	XIII., 374, 385; XIV., 416; XV., 649; XVI., 502, 981; XVII., 150, 316, 478
<i>Nematus gallicola</i> ...	...	...	...	...	XIV., 294; XVII., 479
<i>Nematus laticis</i> ...	...	...	...	...	XVII., 478
<i>Nematus ribesii</i> ...	...	...	...	...	XIII., 709
<i>Neoclytus caprea</i> ...	...	...	...	...	XIV., 215
<i>Neuroterus lenticularis</i> ...	...	...	...	...	XIV., 478; XVI., 294
<i>Obiscum musacorum</i> ...	...	...	...	...	XV., 926
<i>Ocneria monacha</i> ...	...	...	...	...	XVII., 501
<i>Oestrus ovis</i> ...	...	...	...	...	XI., 227
<i>Orgyia antiqua</i> ...	...	...	...	...	XII., 420
<i>Oribata lapidaria</i> ...	...	...	...	...	XIV., 108
<i>Ortalis fulminans</i> ...	...	...	...	...	XI., 498
<i>Oscinus frit</i> ...	...	...	...	...	XIV., 297; XVI., 387
<i>Otiorynchus</i> ...	...	...	...	...	XV., 46
<i>Otiorynchus picipes</i> ...	...	...	...	...	XIII., 711; XVI., 192, 476, 558
<i>Otiorynchus sulcatus</i> ...	...	...	...	...	XVI., 559
<i>Otiorynchus tenebricosus</i> ...	...	...	...	...	XII., 681
<i>Otiorynchus weevils</i> ...	...	...	...	...	XIV., 161
<i>Pachylomma buccata</i> ...	...	...	...	...	XVI., 923
<i>Pemphigus lactucarius</i> ...	...	...	...	...	XV., 436
<i>Pemphigus nidificus</i> ...	...	...	...	...	XIV., 354
<i>Periplaneta</i> ...	...	...	...	...	XV., 45, 751
<i>Phacodes obscurus</i> and <i>P. personatus</i> ...	...	...	...	...	XIV., 352
<i>Phaedon betulæ</i> ...	...	...	...	...	XIV., 214
<i>Phorbia brassicæ</i> ...	...	...	...	...	XI., 352; XV., 356
<i>Phoridae</i> flies ...	...	...	...	...	XIV., 353, 415
<i>Phorodon humuli</i> ...	...	...	...	...	XIII., 714; XVI., 617; XVII., 827
<i>Phratora vitellinae</i> ...	...	...	...	...	XIV., 214; XV., 276
<i>Phyllaphis fagi</i> ...	...	...	...	...	XVI., 388
<i>Phyllobius maculicornis</i> ...	...	...	...	...	XIV., 216
<i>Phyllodecta (Phratora) vitellinae</i> ...	...	...	...	...	XV., 276; XVII., 480
<i>Phyllopertha horticola</i> ...	...	...	...	...	XV., 356
<i>Phylloxera vastatrix</i> ...	...	...	...	...	XVI., 157
<i>Phytomyza geniculata</i> ...	...	...	...	...	XIV., 217, 556; XV., 435; XVII., 49
<i>Phytoptus pyri</i> ...	...	...	...	...	XIV., 743; XV., 277, 437; XVI., 210; XVII., 123, 299
<i>Pieris brassicæ</i> ...	...	...	...	...	XV., 506
<i>Pissodes notatus</i> ...	...	...	...	...	XI., 686
<i>Platyparea poeciloptera</i> ...	...	...	...	...	XI., 498
<i>Plectroscelis concinna</i> ...	...	...	...	...	XVI., 559
<i>Plutella maculipennis</i> ...	...	...	...	...	XIII., 235
<i>Porthesia auriflua</i> ...	...	...	...	...	XIII., 706
<i>Porthesia chrysorrhæa</i> ...	...	...	...	...	XIV., 290
<i>Psocidae</i> ...	...	...	...	...	XIV., 551
<i>Psylla mali</i> ...	...	...	...	...	XI., 172; XIII., 715; XVI., 934
<i>Psylliodes attenuata</i> ...	...	...	...	...	XVI., 561
<i>Pterostichus madidus</i> ...	...	...	...	...	XII., 306; XIV., 291
<i>Pterostichus vulgaris</i> ...	...	...	...	...	XII., 306; XVII., 388
<i>Pulvinaria vitis</i> ...	...	...	...	...	XV., 507
<i>Pulvinaria vitis, var. ribis</i> ...	...	...	...	...	XIII., 716
<i>Pygaera bucephala</i> ...	...	...	...	...	XIII., 706
<i>Quedius mesomelinus</i> ...	...	...	...	...	XVI., 922
<i>Retinia buolianæ</i> ...	...	...	...	...	XIV., 477
<i>Rhizoglyphus echinopus</i> ...	...	...	...	...	XI., 748; XIV., 679; XV., 840; XVI., 295
<i>Rhizotrogus solstitialis</i> ...	...	...	...	...	XVI., 562
<i>Rhopalosiphum ribis</i> ...	...	...	...	...	XIII., 714
<i>Rhynchites minutus</i> ...	...	...	...	...	XV., 275
<i>Saperda carcharias</i> ...	...	...	...	...	XVII., 480
<i>Schizoneura lanigera</i> ...	...	...	...	...	XIII., 55, 711
<i>Sciara flies</i> ...	...	...	...	...	XIV., 162, 556

Insects, etc. (continued)—

<i>Scolytus destructor</i>	XIV., 617
<i>Semasia woerberiana</i>	XIII., 708 ; XVII., 828
<i>Scaptora vibrans</i>	XVII., 300
<i>Sesia apiformis</i>	XV., 432
<i>Sirex gigas</i> and <i>S. juvenus</i>	XIV., 99
<i>Sitones lineatus</i>	XIV., 161
<i>Silpha quadripunctata</i> , <i>S. opaca</i>	XV., 275
<i>Smerinthus ocellatus</i>	XIV., 213
<i>Spathogaster baccarum</i>	XIV., 478 ; XVI., 294
<i>Staphylinidæ</i>	XI., 302
<i>Steropus madidus</i>	XVII., 388
<i>Tarsonymus</i>	XIV., 479
<i>Tenuipalpus</i>	XV., 46
<i>Teredo</i>	XIV., 683
<i>Tetranychus</i>	XI., 173 ; XV., 47
<i>Tetranychus althaeæ</i>	XVI., 623
<i>Tetranychus bimaculatus</i>	XVI., 319
<i>Tetranychus telarius</i>	XVI., 624
<i>Thrips cerealium</i>	XIV., 355
<i>Tipula oleracea</i>	XVI., 566, 763, 934
<i>Tortrix heparana</i>	XVII., 299
<i>Tribolium confusum</i>	XI., 109
<i>Tribolium ferrugineum</i>	XV., 434
<i>Tropicoris rufipes</i>	XIII., 717
<i>Tylenchus devastatrix</i>	XI., 219 ; XII., 755 ; XIV., 223 ; XVI., 555, 627
<i>Tylenchus tritici</i>	XIV., 416 ; XV., 507
<i>Typhlocybidæ</i>	XIII., 716
<i>Tyroglyphus longior</i>	XV., 688 ; XVI., 923
<i>Xiphidra dromedarius</i>	XIV., 103
<i>Xylina rhinolitha</i>	XIV., 161
<i>Zeuzera aesculi</i>	XII., 116 ; XV., 840
Insurance : Agricultural produce	XI., 565
Bees	XVI., 485
Co-operative horse insurance	XIV., 275
Cow and pig clubs in Lincolnshire	XII., 82
Farming stock against fire	XIII., 159
Horses, mortality of	XIV., 488
Live stock	XIV., 112 ; XV., 32, 572 ; XVII., 142, 488, 643
Poultry	XI., 44
Belgium	XV., 37
Denmark	XV., 523
France	XI., 547 ; XIII., 119 ; XV., 38, 526
Germany	XI., 26, 620 ; XV., 41 ; XVII., 765
Holland	XV., 34
Norway	XV., 525
Sweden	XV., 42
Switzerland	XV., 40
Intelligence Division Reports	1904, XII., 440 ; 1905, XIII., 499 ; 1906, XIV., 623 ; 1907, XV., 444, 696 ; 1908, XVI., 400, 845 ; 1909, XVII., 220, 992
Intensive cultivation	XV., 563, 834
International Agricultural Institute	XII., 181 ; XIII., 129 ; XVI., 274
Crop Reports. See monthly issues since February, 1910.	
Objects and work. See <i>Journal</i> supplement, April, 1910.	
Publications of	XVII., 418, 760, 859
Report on work during 1910	XVII., 993
Value of crop estimates to the farmer	XVII., 572
World's stock of cattle, sheep and swine	XVII., 1035

- International Cold Storage Association ... XVI., 146
- International Dairy Federation, prize for experimental work on
nutritive value of milk ... XVII., 327
- International Statistical Institute ... XVI., 639
- Inverliever estate, afforestation of XV., 620; XVI., 219, 980; XVII., 308
- Ireland : Bee Pest Prevention (Ireland) Act ... XV., 456; XVI., 321
- Black scab in potatoes (Ireland) Order of 1908 ... XV., 548
- Butter, transport of ... XI., 43
- Calf-rearing experiments ... XI., 39
- Co-operative poultry societies ... XI., 80, 257
- Dairying, committee on ... XVI., 149
- Disease among young cattle ... XIII., 167, 487
- Earnings of Irish migratory labourers in 1907 ... XV., 300
- Education, agricultural, for young men ... XV., 375
- Flax growing industry, committee ... XVII., 65, 996
- Forestry, committee on ... XV., 128
- Live stock, improvement of ... XIII., 478
- Population, agricultural ... XI., 271
- Prizes for cottages and small holdings ... XIV., 49
- Scholarships, agricultural ... XIV., 568
- Seed potatoes, Irish and Scottish compared ... XIV., 30, 731; XV., 626
- Sheep Dipping Order, 1907 ... XIV., 34
- Surprise butter competitions ... XIII., 422
- Swine, movement to Great Britain, regulations ... XI., 619
- Tobacco cultivation ... XV., 511; XVI., 925
- Irrigation in California ... XVI., 327
- Isle of Wight, bee disease ... XIV., 115, 129; XV., 62, 809; XVI., 323
- Italian or crimson clover (*Trifolium incarnatum*) ... XIII., 264
- Italian rye grass ... XI., 418
- Italy : Agriculture in southern Italy ... XVI., 228
- Artificial manures, production of ... XV., 458
- Credit, agricultural ... XII., 100; XVII., 1002
- Experimental farms ... XVII., 155
- Dodder, prevalence in ... XIII., 338
- Flour, reduction of duty on wheat ... XII., 696
- Horticultural produce, importation of ... XVI., 228
- Implements, reduced railway tariff for agricultural ... XII., 629
- International Agricultural Institute ... XII., 181; XIII., 129; XVI.,
274; XVII., 418, 572, 760,
859, 993, 1035
- Live stock, demand for ... XV., 929
- Persons engaged in agriculture ... XIV., 433
- Railway charges ... XII., 180, 629
- Stallions for ... XII., 234
- Superphosphates, demand for ... XV., 778
- Turin international exhibition, 1911 ... XVII., 327, 762, 1032
- Japan : British cattle for ... XV., 382
- British live stock and machinery in ... XVI., 484
- Cattle rearing ... XVII., 154
- Fertilisers, consumption of ... XII., 695
- Gall stones, animal, use of ... XV., 220
- Horse-breeding in ... XII., 760; XIII., 376; XVII., 154
- Soy bean cake, use as a fertiliser ... XVII., 410
- Java beans, poisoning of cattle by ... XII., 742; XIII., 52; XIV., 722
- Jebb, Miss L. : Creation of small holdings ... XV., 1
- Co-operative in the tenure of small holdings... ... XVI., 353
- Jersey and Shorthorn cows, butter tests with ... XII., 483; XIII., 193
- Joint ill. See *Diseases of Live Stock*.

- JOURNAL OF THE BOARD OF AGRICULTURE ... XIV., 52, 754
 Cases for binding ... XV., 140
 Index, 1894-1904 ... XVI., 412
 Supplements ... XIV., 563, 624; XV., 698; XVII., 66, 241, 858
- Judging : Live stock in Germany, method ... XI., 736
 System at shows in Canada ... XL., 164
 Use of "score card" ... XIV., 36
- Kew Gardens : Gardeners, conditions of employment ... XIV., 568
 New gallery at ... XL., 52
 Orchids, cultivated at ... XI., 117
 Preserving ripe fruit ... XII., 305; XIII., 562
 Visitors, number... 1907, XIV., 694; 1909, XVI., 946
- Kirkeudbright and District Milk Record Association ... XIV., 328
- Knapweed (*Centaurea nigra*) ... XIV., 311
- Kohl-rabi : Diseased ... XIV., 621
 Manuring ... XV., 706
- Kurdistan, Asia Minor, agriculture in ... XV., 219
- Labour : Census of 1911, agricultural classification ... XVII., 1027
 Decline in the agricultural population ... XIII., 529
 Hampshire, labouring classes in ... XV., 83
 Harvesting corn, expenses of ... XV., 729
 Irish agricultural labourers in England and Scotland... 1907, XV., 300 ;
 1909, XVII., 1038
 Manual processes of agriculture, instruction in ... XIII., 750
 Number of agricultural labourers ... XI., 271
 Persons engaged in agriculture in different countries ... XIV., 433
 Soldiers, employment for harvesting ... XI., 307
 Wages, agricultural ... 1903, XI., 502 ; 1904, XII., 246 ; 1905 and
 1906, XIII., 312 ; 1906, XIV., 429 ; 1907, XV., 527
 Earnings of agricultural labourers, report on ... 1902, XII., 51 ;
 1907, XVII., 838
 Harvest ... 1904, XI., 502 ; 1906, XIII., 502 ; 1907,
 XIV., 493 ; 1908, XV., 701
 Workmen's Compensation Acts, 1900 and 1906 XI., 373 ; XIV., 285
United States, farm labour and wages ... XI., 98
- Laburnum poisoning ... XIV., 695
- Lambs. See *Sheep*.
- Lancashire : County farm at Hutton ... XIII., 658
 Milk tests in ... XIV., 740 ; XV., 449
 Small holdings in ... XV., 561
- Land Division, Reports under Tithe, etc. Acts (see also *Small Holdings Reports*) ... 1903, XI., 115 ; 1904, XII., 183 ; 1906,
 XIV., 170 ; 1907, XV., 303 ; 1908, XVI.,
 309 ; 1909, XVII., 241
- Land drainage : Cleansing of water-courses ... XII., 214
- Lander, G. D. : Formation of hydrocyanic acid from linseed
 cake ... XVII., 904
- Land tenure (see also *Small Holdings*) : Agricultural arbitration
 in Scotland ... XIV., 141
 Agricultural holdings in Great Britain, return ... XIV., 50
 Farm records in Norfolk ... XIII., 356
 Holdings in Great Britain, number ... XI., 246
 Northern Allotment Society ... XII., 202
 Peasant class on the Continent, indebtedness of ... XIV., 559
 Prizes for cottages and small holdings in Ireland ... XIV., 49
 Rental of farms in Scotland ... XIV., 431

- Land tenure (*continued*)—
 Tied cottages XIII., 753.
 Denmark, farms XI., 144.
 Russia XIII., 545.
- Lanterns for catching insects XII., 164.
- Lapwing or plover, prevalence of XVI., 747.
- Lard, standard in United States XI., 32.
- Lauder, Alec. : Variations in the composition of milk XIV., 205.
- Lavender, cultivation of XIV., 531.
- Lawrence, W. T. : Calf rearing XI., 705.
 Cross-breeding for mutton in the North of England XIII., 513.
- Leaflets of the Board of Agriculture and Fisheries ... XI., 181, 305, 504;
 632, 696 ; XII., 184, 376, 504 ; XIII., 435 ;
 XV., 876, 951 ; XVI., 239 ; XVII., 240, 942.
- Leather dust as manure XIII., 71.
- Leeds, afforestation of a catchment area at XII., 614 ; XVI., 265.
- Leeds University : Agricultural education at XIII., 648.
- Leguminous crops : Manuring of XI., 104.
 Soil inoculation for XI., 348, 669, 725 ; XII., 282, 641, 759.
 Summary of experiments XV., 705.
- Lempfert, R. G. K. : A new method of treating meteorological
 statistics XIV., 1.
- Lesmahagow District Milk Record Association XIV., 327.
- Library of Board of Agriculture : Loan of books from XII., 569 ; XVI., 764.
 Periodicals filed in, list of XVI., 524, 614, 701, 789.
 Reference to XII., 569.
- Lights on Vehicles Act, 1907 XIV., 437.
- Lime. See *Manures*.
- Lime nitrogen. See *Manures*.
- Lime-sulphur wash XIII., 497 ; XV., 522 ; XVI., 408 ; XVII.,
 148, 184, 212, 881, 1010.
- Lincolnshire : Cow and Pig Clubs in XII., 82.
 Navel ill, joint ill, or big joint in XI., 110.
 Potato trade in 1908-9 XVI., 157.
- Lincolnshire Farmers' Association XV., 919.
- Lindsey County Council, sampling of fertilisers XI., 438.
- Linseed cake. See *Oil cake*.
- Lissenden, G. B. : Railway transport of agricultural produce ... XVII., 722.
- Lister-Gerber milk test XI., 370.
- Litter : Use of bracken as XV., 481.
 Value of moss XIII., 360.
- Little, W. B. : Action of bees in pollination XVII., 974.
- Live stock (see also *Cattle*, *Diseases*, *Import Regulations*,
 Exhibitions, etc.) :
 Breeding and feeding of live stock, congress at Brussels, 1910 XVII., 327.
 Breeding, the science of XVII., 705.
 Brussels exhibition, advertisement of British breeds at ... XVI., 674.
 Live stock exhibit XVII., 661.
 Cost of transport XVI., 1015.
 Export trade, committee on XVII., 59.
 Feeding experiments XV., 877, 931 ; XVI., 660.
 Flaying, caution as to damage to hides XVII., 628.
 Handbook of British breeds XVII., 130, 240, 663.

Live stock (*continued*)—

Insurance	XV., 32, 572 ; XVII., 645
Northumberland, improvement in	XI., 353
Poisoning of animals by potatoes	XVII., 743
Rations on ocean voyages	XV., 849
Mendelism and its application to stock breeding	XVII., 284, 925
"Score Card" for judging	XIV., 36
Shows, value to students	XIII., 103
Slaughtering, methods	XI., 298 ; XVI., 61
Summaries of experiments	XV., 877 ; XVI., 660 ; XVII., 752, 850, 925, 1011
Turin exhibition, live stock show	XVII., 1032
World's stock of cattle, sheep, and swine	XVII., 1035
Argentina	XIV., 175 ; XV., 590, 850 ; XVI., 302, 708 ; XVII., 130, 413
Azores, demand	XV., 65
Belgium, state assistance to breeding in	XI., 21
Insurance	XV., 37
Brazil	XVI., 39, 485, 500, 677 ; XVII., 766
Opening for British breeds	XV., 50, 755 ; XVI., 1016
Possible demand for pedigree stock	XIV., 303, 738
British East Africa	XI., 737 ; XVI., 130
Canada, judging at shows	XI., 164
Number and condition of live stock, 1910	XVII., 860
Number and value of live stock, 1910	XVII., 1033
Chile, breeding stock	XII., 376
Colombia, demand	XV., 289 ; XVI., 40
Damascus, number	XIV., 760
Denmark, demand	XV., 760
Insurance	XV., 523
Egypt, demand	XV., 849
France, insurance	XV., 38, 526
Germany, census	XII., 606 ; XVI., 213
Insurance	XI., 26, 620 ; XV., 41 ; XVII., 765
Method of judging in	XI., 736
Rate of mortality	XV., 535
Holland, insurance	XV., 34
Greece, British breeding stock in	XI., 165
Ireland, improvement scheme	XIII., 478
Italy, demand	XV., 929
Japan, British live stock in	XVI., 484
Gall stones, animal, use of	XV., 220
Norway, insurance	XV., 525
Poland, export to United Kingdom	XVI., 329
Roumania, demand	XIV., 504
Russia, British stock in	XI., 292 ; XIV., 302
South Africa, freights from Great Britain	XVI., 747
Pedigree live stock	XVI., 746
Spain, British breeds in	XV., 65
Sweden, improvement of live stock in	XI., 421
Insurance	XV., 42
Live stock breeding	XVII., 923
Switzerland, improvement in	XIV., 303 ; XVI., 851
Insurance	XV., 40
Transvaal, demand in	XII., 166, 605
United States, cost of transport	XVI., 1015
Lledrod Agricultural Society	XIII., 630
Lleweni Hall Dairy School, Denbigh	XIII., 658
Loans in Queensland	XII. 375
Local Government Board : Boneless scrap meat, etc., importation of	XIV., 736

Local Government Board (*continued*)—

- Hop-pickers, lodging and accommodation for ... XIV., 106
 Pea-pickers, accommodation for ... XVI., 589
 Rating of orchards ... XII., 686
 Rating of sporting and fishing rights ... XII., 287
 Rating of woodlands ... XII., 174
 Tuberculosis in pigs ... XII., 747
 Loganberry, commercial cultivation ... XVII., 552
 Louping-ill and braxy. See *Diseases of Live Stock*.
 Lucerne : Cultivation of ... XII., 225 ; XVII., 578
 Inoculation ... XVII., 578, 750
 Manuring ... XV., 706
 Pig-feeding ... XVI., 821
 Seed and its impurities ... XIII., 82
 Summary of experiments ... XV., 706 ; XVII., 578, 669
 Time of cutting ... XVII., 305
 Varieties experiments ... XV., 706 ; XVI., 493 ; XVII., 669
 Lupins for green manuring ... XV., 516
 Lupitz system of green manuring ... XII., 29
 Lymphangitis, Epizootic. See *Diseases of Live Stock*.
 Macaroni wheat in the United States ... XI., 208, 543 ; XII., 694
 Macdonald Institute in Canada ... XIII., 32
 Macdougall, R. Stewart : Apple sawfly ... XIV., 482
 Currant bud mite and hazel bud mite ... XIV., 676
 Elm bark beetle ... XIV., 617
 Frit fly (*Oscinis frit*) ... XIV., 297
 Gall flies on the oak ... XVI., 293
 Gall gnats injurious to osiers and willows ... XII., 499
 Genus *Chermes* in its relation to forestry ... XVI., 441
 Goat moth (*Cossus ligniperda*) and the Wood Leopard moth
 (*Zeuzera aesculi*) ... XII., 115
 Grain weevils (*Calandra granaria* and *C. oryzae*) ... XIV., 412
 Larch shoot moth ... XIV., 395
 Large larch sawfly (*Nematus Erichsoni*) ... XIII., 385
 New enemy of the Douglas fir ... XII., 615
 Oyster shell bark scale ... XIV., 614
 Turnip mud beetle ... XII., 102
 Wood wasps ... XIV., 98
 Machinery, agricultural. See also *Exhibitions*.
 Accidents, precautions against ... XIII., 225
 American weeder ... XI., 197
 Electricity as a motive power on the farm ... XIII., 568
 Hop-picking machinery ... XVI., 145, 849
 List of buyers abroad ... XII., 249
 Milking machine experiments ... XVI., 497, 664
 Milk preserving machine ... XVII., 412
 Hay collector or sweep-rake ... XI., 485
 Poppy killer ... XI., 196
 Reduction of agricultural labourers due to ... XIII., 532
 Spraying machines and nozzles ... XVI., 803, 900
 Windmills ... XVI., 904
 Accra ... XVII., 326
 Argentina, demand ... XII., 249 ; XV., 588 ; XVI., 710 ; XVII., 1031
 Asia Minor ... XII., 248, 629 ; XVII., 409
 Belgium, school of agricultural mechanics ... XIII., 630
 Brazil ... XVI., 38, 40, 485, 1016
 Bulgaria, demand ... XIV., 631 ; XV., 621 ; XVII., 156, 944
 Burma ... XVII., 408
 Canada ... XVI., 139 ; XVII., 1031

Machinery, agricultural (*continued*)—

<i>Caucasus</i>	XVII., 156
<i>Chile</i>	XV., 220
<i>Colombia</i> , demand	XV., 778
<i>Costa Rica</i> , free admission	XIV., 375
<i>Denmark</i> , milking machinery	XVI., 501 ; XVII., 503
<i>Egypt</i>	XVI., 501 ; XVII., 678
<i>France</i> , demand	XIV., 605 ; XV., 218 ; XVI., 326 ; XVII., 156, 324, 409
<i>India</i> , demand	XII., 249 ; XVI., 139 ; XVII., 589
<i>Italy</i>	XIII., 185 ; XIV., 438, 502 ; XVI., 327 ; XVII., 157
<i>Japan</i>	XVI., 484
<i>Mexico</i>	XIII., 185
<i>Natal</i> , demand	XV., 533, 948
<i>Panama</i> , free distribution	XV., 948
<i>Paraguay</i>	XVII., 945
<i>Poland</i> , demand	XV., 219 ; XVII., 589, 944
<i>Roumania</i>	XV., 222
<i>Russia</i>	XII., 503, 569 ; XIII., 547 ; XIV., 55 ; XV., 304, 383 ; XVI., 140, 326 ; XVII., 67, 500, 680
Information Bureau	XIV., 502
<i>Siberia</i> , demand	XIII., 565
<i>Smyrna</i> , demand	XIV., 118
<i>Spain</i>	XV., 222 ; XVII., 325
<i>South Africa</i> , demand	XII., 629
<i>Sweden</i> , testing stations	XVII., 923
<i>Transvaal</i>	XVII., 325
<i>Turkey</i>	XIV., 502 ; XVI., 139 ; XVII., 325
<i>United States</i> , hop picking by machinery	XVII., 328
<i>Uruguay</i>	XVI., 327
Mackenzie, K. J. J. : Baby beef	XVII., 177
Cost of producing beef in winter	XV., 253
Expenses of corn harvesting	XV., 729
The science of breeding	XVII., 705
Maggots in sheep	XI., 423, 551 ; XVII., 626
Maize : Cultivation, etc.	XV., 779
Fodder and silage crop	XIV., 14 ; XVII., 583
Fodder, utilisation of green maize for	XIII., 229, 681
Grading in South Africa	XV., 66
Investigations into maize and maize silage	XVI., 1031
Manuring	XV., 707
Pig-feeding	XIV., 542 ; XVI., 727
Trials	XVI., 493
<i>Argentina</i> , production and export	XVI., 300
<i>Roumania</i> , prohibition of exportation	XII., 420, 567
Malden, W. : Disease of bees in Isle of Wight	XV., 809
Manchester poultry market	XIV., 645
Manchester University, Department of Agriculture	XVI., 1037
Manchuria, exportation of beans from	XVI., 229, 735, 860 ; XVII., 67, 410, 502, 688
Wheat production	XVII., 764
Mange in cattle	XI., 741
Mangolds : Composition and weight of	XV., 538
Cultivation	XIII., 732
Distance apart of plants, effect on yield	XV., 539
Feeding value of	XIII., 416 ; XIV., 29 ; XV., 538
Growing in double rows	XIV., 632
Improvement experiments	XII., 353 ; XV., 538
Manuring	XIII., 26, 216 ; XV., 536 ; XVI., 238, 239, 491 ; XVII., 145, 227, 310, 665
On black fenland	XVI., 311

Pig-feeding	XVI., 820
Summaries of experiments	...			XV., 536 ;	XVI., 239, 311, 491 ;		
					XVII., 145, 227, 310, 576, 665		
Variety trials	...	XV., 537 ;	XVI., 241 ;	XVII., 145, 228, 576, 655			

Manning, Albert J. : Root-pruning fruit trees XVI., 290

Manures (see also under specific crops): Acetylene residue ... XV., 875

XIII., 551; XV., 284, 780;
XVI., 589; XVII., 579, 668

Treated by steam pressure	XIII., 377
-------------------------------------	-----	-----	-----	-----	------------

Blood, dried	XIII., 67
--------------	-----	-----	-----	-----	-----	-----	-----------

Calcium cyanamide (Lime nitrogen) XII., 101 ; XIII., 38, 216, 410 ;

XIV., 652; XVI., 154, 316, 406,
494, 1006; XVII., 134, 495,
585. 749

Charlock destruction ... XIV., 568; XV., 776; XVI., 761; XVII., 1019

New process for manufacture	XII., 598
-----------------------------	-----	-----	-----	-----	-----------

Chalk as a dressing for light soils	XVII., 306
-------------------------------------	-----	-----	-----	-----	------------

Duck manure, value of	XII., 463
-----------------------	-----	-----	-----	-----	-----	-----------

Experiments, by farmers	XI., 762
-------------------------	------	-----	-----	-----	-----	----------

Schemes for, publication of pamphlet	XVI., 238
--------------------------------------	-----	-----	-----	-----------

Farmyard, cost of making	XV., 568
--------------------------	-----	-----	-----	-----	-----	----------

Estimated value	XV., 260
-----------------	-----	-----	-----	-----	-----	----------

Losses during making and storage	XV., 7
----------------------------------	-----	-----	-----	--------

Investigations XVI., 1031

Value as a fertiliser	XV., 161
-----------------------	-----	-----	-----	-----	-----	----------

Winter and spring application XVII, 584

Feathers and feather waste as manure	XIII., 67
--------------------------------------	-----	-----	-----	-----------

Felspathic rocks as a source of potash ... XIV., 540

Fish waste as manure XIII., 69

Fruit trees, mineral content of leaves	XVII., 933
--	-----	-----	-----	------------

Gasworks, liquor from	XIII., 94
-----------------------	-----	-----	-----	-----	-----	-----------

Greaves as manure	XIII., 67
-------------------	-----	-----	-----	-----	-----	-----------

Green manuring XII., 29, 171; XIV., 231; XV., 516,
520, 521; XVI., 423; XVII., 550, 551

708 ; XVI., 406 ; XVII., 750, 969

Hair as manure	...	...	...	...	...	...	XIII., 68
" " "	...	...	...	...	...	...	XIII., 69

Hoofs and horns as manure	...	...	...	...	XIII., 68
Fertilizing soil	...	VI., 249	339	525	VII., 339

Inoculation of soil	XI., 348, 669, 725 ; XII., 282, 641, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000
---------------------	-----	-----	--

759; XVI., 494; XVII., 586
XIV., 605

Kainit, use against American gooseberry mildew spores ...	XIV., 695
Leather, treatment of ...	XIII., 51

Leather dust as manure	...	...	...	...	...	XIII., 71
Time effect on manure						VIII., 55

Lime, effect on poor pasture	...	...	...	XIII., 554
How to use lime on land	...	...	...	XIII., 321

How long does it last in the soil?	...	...	...	XIII., 321
Use of different forms		VII.	400	XII., 621

Use of different forms	...	...	...	XII., 400; XIII., 621
as nitrogen	See Calcium Cyanamide			

Lime nitrogen. See *Calcium Cyanamide*.
Liquid measure, value of

Liquid manure, value of	...	XVII., 494
Low quality manure, sale of, at excessive prices	...	XVII., 620

Low quality manure, sale of, at excessive prices	...	...	XVII., 629
Magnesia			XVII. 749

Magnesia ...	...	...	...	...	...	...	XVII., 749
Moss litter, value of							XIII., 360

Moss litter, value of	...	...	...	...	...	XIII, 360
Night soil as manure						XIII, 71

Night soil as manure	...	...	...	...	...	XIII., 71
Nitrate combination, Chilean						XVI, 860

Nitrate combination, Chilean XVI., 860
Nitrate of lime VII. 598; XV. 948; XVI. 406 1006; XVII.

406, 1006; XV 11.,
134 495 585 749

Manures (*continued*)—

Nitrate of soda	XIII., 473 ; XVII., 495, 504
Nitrates, new source of	XIII., 475
Oil cake and farmyard manure	XII., 547
Oil cake and artificial manures, comparative value of	XII., 600
Pastures, increase of mutton production. See <i>Journal Supplement</i> , No. 5, January, 1911, and also <i>Manures</i> , <i>Basic Slag</i> .	
Phosphates, supply	XIV., 696
Plants in pots, manuring	XVI., 70
Pond mud... ..	XIV., 495
Poudrette as manure	XIII., 71
Poultry manure, value of	XII., 463 ; XIII., 719
Rabbit waste as manure	XIII., 69
Rotation, manuring of crops in	XIII., 91 ; XVI., 405, 494 ; XVII., 669, 748
Seaweed	XVII., 458, 832
Sewage and sewage sludge	XIII., 72 ; XV., 690, 708
Shoddy as manure	XIII., 70
Slaughter-house refuse as manure	XIII., 69
Soy-bean cake	XVII., 410
Sulphate of ammonia	XVII., 495
Effect on poor pasture	XIII., 553
Production	XIII., 359 ; XIV., 305 ; XVII., 745
,, from peat	XV., 928
Tannery refuse as manure	XIII., 71
Town refuse	XIV., 503
Waste organic substances	XIII., 65
<i>Austria</i> , potash industry	XVII., 679
<i>Belgium</i> , use of artificial manures	XVI., 853
<i>Canada</i> , manurial experiments... ..	XI., 205
<i>Denmark</i> , storage of farmyard manure	XI., 146
<i>Egypt</i> , chemical manure trade	XIV., 605
<i>France</i> , production of calcium cyanamide	XV., 950
<i>Germany</i> , consumption of fertilisers	XVII., 590
Potash deposits	XIII., 221 ; XIV., 183 ; XV., 141
,, production	XVII., 767, 1032
Production of calcium cyanamide	XVI., 501
<i>Holland</i> , analytical stations for manures	XVI., 375
<i>Italy</i> , demand for superphosphates	XV., 778
Production	XV., 458
<i>Japan</i> , consumption of fertilisers	XII., 695
<i>Marshall Islands</i> , phosphates in	XV., 66
<i>Morocco</i> , free importation of fertilisers	XVII., 677
<i>Natal</i> , phosphates in	XV., 949
<i>Norway</i> , nitrate of lime production	XII., 598 ; XIV., 694 ; XVI., 414, 945
Importation	XV., 778
<i>Poland</i> , consumption of fertilisers	XVII., 767
Demand for fertilisers	XV., 219
<i>Russia</i> , consumption of fertilisers	XVII., 678
Importation	XIV., 310 ; XV., 949 ; XVII., 764
Opening for artificial manures	XVII., 678, 764
<i>Society Islands</i> , phosphates in	XV., 303
<i>South Australia</i> , use of fertilisers	XV., 535
<i>Spain</i> , demand	XII., 376 ; XVII., 325
<i>Sweden</i> , analyses	XVII., 922
Consumption of fertilisers... ..	XVII., 767
<i>United States</i> , supply of phosphates	XV., 621
Maps, Ordnance Survey	XI., 375 ; XII., 54, 245 ; XIV., 693 ; XVI., 665
Margarine (see also <i>Butter</i>) : Analysis of samples at Government laboratory, 1906	XIII., 307

Margarine (<i>continued</i>)—	
Butter and Margarine Act, 1907	XIV., 610
Factories in Great Britain	XIII., 424; XVII., 949
Select Committee on butter trade, Report	XIII., 300
Denmark, law	XII., 434
Holland, new Bill	XIII., 687
Sweden, law	XIII., 170
Margarine industry	XV., 458
Market gardening in Hampshire	XV., 91
In Lancashire	XV., 560
Marketing of poultry	XIII., 395, 624; XIV., 81, 641; XV., 98
Marketing wild fruits	XV., 514
Markets : Markets and Fairs, etc., Order of 1905	XI., 695
Markets and Fairs Act, Prices returned under	XI., 309, 729
Fruit, establishment of	XIII., 431
Salford cattle market	XV., 788
Marking of agricultural produce in Denmark	XIII., 110
Marsh horse-tail	XIII., 378
Marshall Islands : Phosphates in	XV., 66
Massee, George : Greening of potatoes	XVI., 177
Matthews, A. T. : Development of the dairy shorthorn	XVI., 441
Maw, P. T. : Financial aspect of the growth of Scots pine	XVII., 189
Meadow foxtail (<i>Alopecurus pratensis</i> , L.)	XVI., 193
Meadow saffron (<i>Colchicum autumnale</i>)	XIV., 183; XV., 44, 303
Meat (see also <i>Live Stock</i>) : Committee on combinations in the meat trade	XVI., 214
Committee on supply	XV., 385
Cost of producing beef in winter	XV., 253
Cost of transport	XVI., 1015
Importation of boneless scrap meat, pork, etc.	XIV., 736
Production and consumption	XI., 232
Unsound food and foreign meat regulations	XV., 711, 876
Argentina, exportation of meat products to	XIV., 364
Austria, importation of frozen meat from South America	XVII., 678
Brazil, export of meat	XVII., 242
Canada, inspection	XIV., 176
Netherlands, export	XVI., 228
Switzerland, importation	XVII., 944
<i>Medicago sativa</i> , <i>lupulina</i> , etc. (Lucerne and trefoil seed)	XIII., 82
Meek, Alex. : Horse bot fly	XII., 109
Secretion of milk	XIII., 218
<i>Melophagus ovinus</i> , experiments in dipping sheep for	XI., 361
Mendelism and its application to stockbreeding	XVII., 284
Inheritance in the potato	XVII., 932
Sheepbreeding by Mendelian methods	XVII., 925
Merchandise Marks Act : Caution to purchasers of home produce	XIV., 673
Mere Small Holdings Association	XVI., 360
Meteorological Office : Administration	XII., 182
Committee of	XIII., 631
Departmental Committee on	XI., 248
Harvest weather forecasts	XII., 120; XIII., 182; XIV., 180; XV., 219, 535; XVI., 149; XVII., 407
Meteorological statistics, a new method of treating	XIV., 1
Meteorology : Weather and crops in Europe in 1904	XI., 479
Winter and the wheat crop	XI., 716

- Mexico : Agriculture in Tampico XVI., 227
 Cattle raising XVI., 414
- Mice and voles... .. XIV., 182, 685
 Mouse plague in Bavaria XVII., 861
- Microtus agrestis* : Small field vole XV., 656
- Middleton, Prof. T. H. : Formation of permanent pastures
 XII., 385, 449, 761
- Midland Agricultural College : Agricultural education XIII., 650
- Middlings for pig-feeding XVI., 726
- Migratory labourers, Irish, earnings 1907, XV., 300 ; 1909, XVII., 1038
- Milburn, Thomas : Mildew of swedes XIV., 671
- Milk (see also *Cream*, *Dairying*, etc.) :
 Analysis of samples at Government laboratory, 1906 ... XIII., 307
 Boric acid, transfer from food to milk XVI., 754
 Breeds of cattle, production of different ... XII., 483 ; XIII., 193 ;
 XV., 955 ; XVII., 930
 Brewers' grains, effect of XIV., 87 ; XVI., 753
 Butter fat, effect of oil food on... .. XVI., 757
 Cellular elements present in XVII., 1016
 Churns, suggestions as to construction XIV., 41
 Colouring XVI., 759
 Colostrum XIII., 249 ; XIV., 520
 Contamination XII., 136 ; XV., 370
 Contracts XII., 371
 Control, a voluntary system XVII., 225
 Cost of food in production XIV., 321
 Dépôts, rules for XVII., 222
 Fat, effect of milking interval on percentage of XI., 166 ; XII., 169 ;
 XV., 954 ; XVII., 853
 Food, effect on production ... XI., 166 ; XII., 167, 553 ; XV., 951 ;
 XVI., 155, 649 ; XVII., 910
 Goats' milk, production and value of XIV., 712
 Hegelund method of milking XII., 170
 Machine for preserving XVII., 412
 Mangolds, feeding value for milk production XIII., 416
 Manuring pasture to increase production XVII., 852
 Methods of milking XII., 170 ; XIII., 453 ; XV., 955
 Milking and butter trials at Dairy Show, 1909 XVII., 930
 Milking machine experiments XVI., 497, 664
 Mixed milk, butter production from XII., 485
 Newly-calved cows, experiments with milk of XIV., 520
 Sale of milk from XIII., 249
 Nutritive value of milk, prize for essay on XVII., 327
 Pasteurized XII., 433
 Physical Deterioration Committee, Report XI., 307
 Preservatives XIII., 297
 Prize competition in Oxfordshire XV., 214 ; XVI., 303
 Public Health Acts, affecting sources of supply XIV., 427
 Sale of milk regulations, circular XII., 45
 Sampling XI., 429
 " effect on composition... .. XVI., 755
 "Scald" milk XVI., 130
 "Score card" for judging milch cows... .. XIV., 36
 Secretion of XIII., 218
 Shorthorn and Jersey cows, butter tests with XIII., 193 ; XV., 955 ;
 XVII., 930
 Skim milk for pig-feeding XVI., 824
 Summary of experiments XV., 951 ; XVI., 753
 Supply, organisation of XVI., 810

Milk (*continued*)—

- Temperature, influence on yield XVI., 755
 Testing by the Babcock method XI., 370
 Tests and records, value of XIII., 457; XIV., 88, 740; XVII., 467
 Tests and records, reports on ... XV., 952; XVI., 753, 756; XVII.,
 930, 1015
 Tests for farmers, arrangements for cheap tests XI., 554, 743; XII.,
 46, 47, 557, 606; XIII., 54, 568; XIV., 55
 Tests in Lancashire XIV., 740; XV., 449
 Tests, number made ... 1906, XIV., 177; 1907, XV., 209
 Variations in composition XIV., 38, 205; XVI., 756
 Winter production XVI., 758
Burma, demand for tinned milk XII., 696
Denmark, testing and control XII., 21, 549; XVI., 1004
 Milking machinery in XVI., 501; XVII., 503
France, milk testing society XVII., 565
Germany, testing and control XII., 24, 411; XVI., 583
Queensland, standard XII., 609
Sweden, testing and control XII., 608; XVII., 924
United States, production of certified milk XV., 384
 Standard XI., 32
 System of dairy inspection... .. XV., 292
 Tests and records XII., 233; XIV., 91, 492
 Milk chickens... .. XVI., 24, 283
 Milk fever (parturient apoplexy) XI., 616
 Milling industry in Europe XVI., 61
 Milling properties of oats XIV., 257
 Mixtures of butter and milk, circular XV., 146, 711
 Model allotments XI., 351
 Model farms in Brazil XVI., 38
 Monmouth Dairy School XIII., 659
 Moorland, reclamation on the Continent XVII., 205
 Use of town refuse for improving XIV., 503
 Utilisation of peat land on the Continent XIV., 146
 Germany, cultivation in XVII., 999
 Sweden, society for cultivation of XIV., 746; XVII., 923
 Morel, the Common (*Morchella esculenta*) XV., 431
 Mørkeberg, Peter Aug. : Danish system of cattle-breeding XVI., 998
 Moss, destruction of XVI., 855
 Moss litter, value of XIII., 360
 Mud flats, reclamation of XIV., 247, 695
 Mud, utilisation of pond mud XIV., 495
 Mushrooms XV., 839; XVI., 919, 1009
 Spawn, demand for XII., 569
 Spawn-making XII., 592
 Mutton: Cross breeding for mutton in the North of England XIII., 513
 Frozen lamb from Natal XV., 66
 Narcissus cultivation XV., 897
 Natal : Agricultural credit bank XIV., 690
 Frozen lamb exported from XV., 66
 Phosphates, supply XV., 949
 Potatoes, market for XI., 151
 National Association of British Millers : Experiments in the
 improvement of wheat XII., 156, 471; XIII., 469;
 XIV., 484; XVI., 65; XVII., 741

- National Fruit and Cider Institute ... XII., 321, 522 ; XIII., 656
- National Physical Laboratory : Milk testing ... XI., 370
- National Poultry Conference ... XIV., 119
- National Poultry Organisation Society ... XIV., 114, 182
- Demonstration train ... XVII., 394
- Navel ill. See *Diseases of Live Stock*.
- Nettles, destruction of ... XIV., 311 ; XVII., 986
- Newark Dairy ... XI., 118
- Newark Horse-keepers' Insurance Co., Ltd. ... XIV., 275
- New South Wales : Creamery systems of payment ... XIV., 741
- Egg-laying competition ... XII., 369
- Fishy butter, cause of ... XI., 235
- Government stud bulls ... XI., 226
- Green manuring ... XII., 32
- Timber resources ... XV., 949
- Newsham, J. C. : Small holdings in Hampshire ... XV., 83
- Strawberry growing in Hampshire ... XVI., 186
- Thatching ... XVI., 463
- Watercress cultivation ... XV., 826
- Newstead, Robert : Brown scale of the gooseberry and currant ... XV., 195
- Felted beech coccus ... XI., 755
- Food of birds (see also *Journal* Supplement, No. 2, Dec., 1908) ... XVI., 698
- New Zealand flax (*Phormium tenax*) ... XIV., 166 ; XV., 532
- New Zealand :
- Live stock, numbers ... XI., 164
- Products Exports Act, 1903 ... XI., 306
- Wool and dairy prospects ... XVII., 416
- Nidderdale Dairy Society ... XVI., 815
- Night soil as manure ... XIII., 71
- Nitrate Combination, Chilian ... XVI., 860
- Nitrate of lime. See *Manures*.
- Nitrate of soda deposits ... XIII., 473
- Nitrates, new source of ... XIII., 475
- Norfolk Chamber of Agriculture, farm records in Norfolk ... XIII., 356
- Normandy. See *France*.
- Northern Allotment Society ... XII., 202
- North-West Territories. See *Canada*.
- Northumberland Agricultural Society : Improvement of stock ... XI., 356
- Northumberland Agricultural Supply Association ... XV., 920
- Norway : Agricultural education ... XVII., 1008
- Agricultural Societies ... XVII., 1007
- Apples, demand ... XIV., 502
- Cost of food in production of milk ... XIV., 332
- Fertilisers, importation of ... XV., 778
- Forestry education ... XVII., 1010
- Insurance of live stock ... XV., 525
- Nitrate production ... XII., 598 ; XIV., 694 ; XVI., 414, 945
- Potatoes, imports ... XI., 614
- Small Holdings Bank ... XVI., 945
- State aid to agriculture and forestry ... XVII., 1006
- Tuberculosis, suppression of ... XV., 496
- Novar system of combating larch disease ... XII., 722
- Nuts (see also *Fruit*) : Nut-growing in Kent ... XVI., 634

- Oats : Black Tartarian XVI., 154
 Composition, experiments XVII., 143
 Depth of ploughing XV., 462
 Grubs on... .. XI., 215
 Manuring XV., 462 ; XVII., 749
 Milling properties XIV., 257
 Oat straw and meadow hay, comparative feeding values ... XVII., 929
 Pig feeding XVI., 726
 Seed, damaged, warning against the use of... .. XIV., 671
 Effect of bad weather on XI., 217
 Effect of change of XV., 463 ; XVI., 151 ; XVII., 145
 Quantity of XV., 463
 Sowing, experiments in XI., 38
 Summary of experiments with XV., 460 ; XVI., 151, 490 ; XVII., 61, 143, 489
 Sussex ground oats XIII., 429
 Varieties, experiments with XII., 219 ; XV., 460 ; XVI., 151, 490 ; XVII., 61, 144, 489
Argentina XVI., 301, 708
Germany, drawback on exported oats XVII., 501
- Official Circulars and Notices (see under subject).
- Oidium lactis* as a cause of fishy flavour in butter XVI., 317
- Oil-cake (see also *Cattle, Feeding Stuffs*) : Adulteration...XI., 438 ; XII., 230
 Comparative value for sheep and cattle feeding XII., 544
 Comparative value of oil-cake and artificial manure XII., 600
 Damaged, as manure XIII., 69
 Effect on poor pasture of feeding cotton-cake to sheep XIII., 555
 Egyptian and Indian cottonseed XI., 289
 High and low grade, relative manurial value XII., 547
 Husk and woolly matter in decorticated cotton cake XV., 366
 Linseed cake, formation of hydrocyanic acid from... .. XIV., 728 ; XVII., 904
 Supply in the United Kingdom XII., 601
 Rubber seed cake XI., 51
 Pig feeding XVI., 824
- Onion couch (*Arrhenatherum avenaceum*, var. *bulbosum*) XVI., 279
- Onion cultivation in Lancashire XV., 563
- Onion, wild (*Allium vineale*) XIV., 374
- Onobrychis sativa* (Sainfoin)... .. XIII., 147
- Ontario Agricultural College : Agricultural education XIII., 31
- Open Spaces Act, 1906 XIII., 756
- Orange River Colony, Central Agricultural Society XVII., 416
- Orchards, see *Fruit, Cider*.
- Orchids cultivated at Kew Gardens, list of XI., 117
- Ordnance Survey, committee on employment in XVII., 319
 Maps XI., 375 ; XII., 54, 245 ; XIV., 693 ; XVI., 665
- Orobanche*, broom rape XV., 176
- Orwin, C.S. : Farm accounts XV., 401
- Osier cultivation XIV., 461 ; XV., 126, 766
 In Holland and Belgium XIV., 47
- Owners' risk, carriage of produce at XI., 68 ; XVI., 306
- Oxford University : Agricultural education XVI., 749
 Forestry education XII., 692 ; XVI., 970
- Oxfordshire Agricultural Society : Milk contest XV., 214 ; XVI., 303

- Percival, J. : Barley stripe or blindness ... XII., 349
 Coltsfoot ... XIII., 735
 Couch or Twitch ... XVI., 279
 Thistles ... XII., 705
- Perennial ryegrass ... XI., 418
- Perry ; Market for English perry in Holland ... XII., 576
 Standard in France ... XV., 777
 Summary of experiments ... XVI., 1025
- Persia : Wheat cultivation ... XVII., 412
- Persicaria, the weed ... XIV., 504
- Pharmacy and Poisons Acts, 1908 ... XVI., 146
- Phaseolus lunatus* (Java beans), poisonous properties ... XII., 742 ; XIII., 52 ; XIV., 722
- Phelps, William : Water supply for villages ... XV., 350
- Phormium tenax*, New Zealand flax ... XIV., 166 ; XV., 532
- Phosphates. See *Manures*.
- Physical Deterioration Committee, Report ... XI., 307
- Pigeons, food habits of wood pigeons ... XIV., 686
 Rearing for market ... XII., 272
- Pigs (see also *Live Stock and Diseases of Live Stock*) :
 Bacon-curing, co-operative ... XVI., 99
 Feeding experiments ... XVI., 245, 661 ; XVII., 1014
 Suggestions as to pig-feeding ... XIV., 587 ; XVI., 718, 820
 With cooked and uncooked potatoes ... XVII., 926
 Insurance ... XII., 82 ; XV., 32, 572
 Maize and maize meal, feeding on ... XIV., 542
 Movement of swine in combined districts ... XI., 619 ; XII., 682
 Pig clubs ... XII., 82 ; XV., 32, 572
 Summaries of experiments ... XVI., 661
 World's stock of swine ... XVII., 1035
Belgium, improvement of breeds ... XI., 25
Germany, insurance in Bavaria ... XI., 620
Ireland, improvement scheme ... XIII., 481
Russia, breeding in ... XIV., 35
 British breeding stock in ... XI., 293
- Pigsties, construction of ... XI., 129
- Plant breeding. See *Wheat*.
- Plants (see also *Fungi, Insects, and Import Regulations*) :
 Abnormal growth ... XV., 204, 284, 510, 690
 Cold, action on plants ... XVII., 304
 Excretion of poisonous substances by roots ... XVI., 68
 Fumigation by hydrocyanic acid gas ... XIII., 370
 Growth, effect of overhead electrical discharges ... XVII., 16
 Injury by fumes from factory chimneys ... XV., 778
 International plant protection, new publication ... XV., 303
 Manuring of plants in pots ... XVI., 70
Cape Colony, inspection of nurseries ... XII., 567
Ceylon, destruction of plant pests ... XVI., 412
Germany, control of plant diseases ... XV., 842 ; XVI., 848
South Africa, market for seeds, plants, and bulbs ... XIII., 121
- Plover or lapwing, prevalence of ... XVI., 747
- Plums (see also *Fruit*) : Evaporating or drying ... XII., 756
 Grafting ... XII., 1
 Manuring ... XVI., 941
 Planting ... XI., 449
 Pulping ... XI., 621
 Spraying ... XI., 641
 Training and pruning ... XI., 522
 Varieties ... XI., 454

- Poison : Prohibition of use, in destruction of animals ... XVI., 933
- Poisoning of stock : By Java beans XII., 742 ; XIII. 52 ; XIV., 722
 By laburnum ... XIV., 695
 By rhododendrons ... XIV., 118
- Poisonous properties of *Cupressus* ... XII., 432
 " " *Phaseolus lunatus*, linseed and cassava... XIV., 722
- Poisons and Pharmacy Act, 1908 ... XVI., 146
- Poland (see also *Russia*) : Fertilisers, consumption of ... XVII., 767
 Hop fair ... XVI., 329, 682 ; XVII., 679
 Horse breeding ... XVII., 862
 Live stock, export to the United Kingdom ... XVI., 329
 Opening for British seeds ... XVII., 501
 Small holdings ... XVI., 499
- Pollination : Action of bees in pollination ... XVII., 974
 Apples, self- and cross-pollination ... XVII., 587
 Fruit trees ... XV., 204, 683
 Germination of pollen ... XVII., 586
 Hop growing, importance of pollination in ... XI., 545
 Red clover ... XV., 753
 Tomatoes ... XII., 357 ; XV., 517
- Pond mud, utilisation of ... XIV., 495
- Ponds, construction of dew-ponds XIII., 181 ; XIV., 498, 630 ; XVI., 61
- Poppies... XVI., 26
- Population, agricultural, in United Kingdom ... XI., 271
 Decline in... XIII., 529, 694
 In different countries ... XIV., 433
- Pork, importation of tuberculous ... XIV., 737
- Porter, J. : Fattening calves for veal ... XIII., 727
 Use of starters in dairying ... XVII., 716
- Pot culture experiments, summary XV., 708 ; XVI., 70, 496 ; XVII., 750
- Potash. See *Manures*.
- Potatoes (see also *Fungi*, *Insects*, *Import Regulations*, *Spraying*) :
 Alcohol production ... XII., 105
 Change of seed experiments ... XV., 627 ; XVII., 311, 578, 894
 Cooking quality ... XII., 33, 539 ; XIII., 47
 Cultivation in Lancashire ... XV., 563
 " " Yorkshire ... XIII., 15
 Cutting of seed tubers ... XVI., 408 ; XVII., 898
 Degeneration ... XII., 671 ; XIV., 247, 385 ; XV., 30
 Experiments in growing, summary of ... XVII., 892
 Greening ... XVI., 177 ; XVII., 46
 Influence of magnesia on ... XVII., 749
 Inheritance in ... XVII., 932
 Intensive cultivation ... XV., 834
 Irish seed, trials of ... XIV., 30, 731 ; XV., 626 ; XVII., 313, 578
 Lincolnshire, trade in 1908-9 ... XVI., 157
 Manuring ... XIII., 22 ; XIV., 71, 85 ; XV., 621 ; XVI., 315,
 402, 493 ; XVII., 312, 577, 899
 Poisoning of animals by... XVII., 743
 Pig-feeding with ... XVI., 821
 Cooked and uncooked potatoes compared for ... XVII., 926
 Planting experiments ... XV., 624 ; XVI., 403
 Problems in growing ... XIV., 65
 Seed potatoes, effect of maturity on ... XVII., 313
 Size of sets ... XVII., 897
 Soil, effect of change on productiveness ... XV., 627

Potatoes (*continued*)—

<i>Solanum commersonii</i>	XI., 412; XIII., 49
and Blue Giant	XIV., 86
Sprouting seed	XI., 673; XII., 34, 736; XIII., 17; XIV., 65; XV., 625; XVII., 899
Summaries of experiments	XV., 621; XVI., 313, 402, 492; XVII., 311, 576, 666
Variety trials	XII., 33; XIV., 54; XV., 623; XVI., 313, 492; XVII., 312, 576, 666, 901
Wart disease, varieties resistant to	XVI., 762; XVII., 556
Weighing at railway stations	XI., 409
France, new tuber (<i>Solanum commersonii</i>)	XI., 412
Germany, disease in	XV., 205, 457
Drying	XIII., 358; XIV., 568
Preparation of alcohol	XI., 29, 733
Production, exports, &c.	XI., 411; XVII., 502
Trials of varieties	XVI., 157
Natal, market in... ..	XI., 151
Norway, importation	XI., 614
Russia, cultivation for alcohol distillation	XVII., 945
Uruguay, opening for British seed	XVII., 679, 861

Poudrette as manure XIII., 71

Poultry (see also <i>Eggs</i>): Animal food for	XIII., 457
Breeds producing brown eggs	XII., 611
Brooders without heat	XVI., 635
Cold storage	XVII., 232
Co-operation in Ireland	XI., 80, 257
Chicken coops	XIV., 368
Chickens, growth and cost of rearing	XII., 257
Day-old chickens... ..	XI., 590
Demonstration train	XVII., 394
Dry feeding of chickens... ..	XI., 683; XII., 257; XV., 880
Ducklings, cost of rearing	XV., 664
Duck raising	XII., 462
Earth salts in poultry food	XVI., 637
Eggs <i>versus</i> table poultry	XIII., 521
Fattening	XIII., 73; XV., 180
centres	XVII., 29
Feeding XI., 532; XII., 259, 369; XIV., 611; XV., 101; XVI., 1029	
Fowl cholera	XV., 345
Gapes, remedy for	XIII., 368
Geese: raising and fattening	XI., 458
Rearing and marketing	XIV., 81
Unthriftiness in	XV., 874
Guinea fowl	XII., 533
Hopper feeding	XV., 106
Housing: Colony system	XV., 102
Experiments... ..	XV., 101, 880
Poultry housing on farms	XI., 9; XIII., 272
Ventilation of houses	XII., 438; XVI., 1029
Incubators... ..	XI., 135, 591; XII., 87; XIII., 201
Causes of death of chickens raised in	XV., 221
Instruction in poultry keeping... ..	XIII., 647
Insurance	XI., 44
Manure, value of	XII., 463; XIII., 719
Marketing... ..	XIII., 395; XIV., 641
Milk chickens	XVI., 24, 283
Mites on	XV., 277
National Poultry Conference	XIV., 119
National Poultry Organisation Society	XIV., 114, 182
Pigeons, rearing for market	XII., 272

Poultry (*continued*)—

Poultry-yard fittings	XIII., 272
Rearing and fattening in Ireland	XI., 80, 257
Renting of farm land by poultry keepers	XI., 404
Scotland, improvement of poultry keeping	XVI., 216
Soils suitable for poultry keeping	XIII., 522
State assistance in France, Belgium, and Denmark... ..	XIV., 631
Summaries of experiments	XV., 880 ; XVI., 1026 ; XVII., 232
Supply and demand at provincial markets	XV., 94
Sussex chicken industry	XII., 753 ; XIII., 172
„ ground oats	XIII., 429
„ poultry, transport of	XIV., 470
Table poultry	XIII., 521
Selection of races of fowls for	XIV., 268
Turkeys, breeding and rearing... ..	XIII., 559 ; XV., 340
Experiments in fattening	XI., 385, 495
<i>Australia</i> , export... ..	XI., 746
<i>Belgium</i> , poultry industry in	XVI., 1017
<i>Germany</i> , fowl cholera regulations	XII., 613
Goose breeding	XV., 533
Poultry industry in... ..	XVI., 18
<i>Russia</i> , possible market in	XIII., 624
Poultry trade	XVII., 1033
<i>United States</i> , poultry industry in	XIII., 490
Powis, J. T. : Shoeing of horses	XV., 909
Prentice, G. : Renewing old hedges	XII., 416
Preservation of eggs	XIII., 526, 688 ; XV., 65, 880
„ „ fruit by pulping and drying	XII., 112, 756
„ „ „ formalin	XII., 305 ; XIII., 562
Priestley, J. H. : Overhead electrical discharges and plant growth	XVII., 16
Produce, conveyance of, by railway... ..	XI., 65
Production, census of... ..	XV., 81, 631 ; XVI., 62 ; XVII., 769, 948
Profit-sharing on a farm in Germany	XIV., 503
Pruning. See <i>Fruit, Hedges</i> .	
Prussia. See <i>Germany</i> .	
Prussic acid, see <i>Hydrocyanic acid</i> .	
Public Health Acts and sources of milk supply	XIV., 427
Quebracho wood in Argentina	XI., 562 ; XII., 568
Queensland : Agricultural loans	XII., 375
Dairy legislation	XII., 609
Rabbit waste as manure	XIII., 69
Rabbits : Prevention of cruelty in destroying	XVI., 931
Protection of trees against	XII., 630
Utility rabbit breeding	XVII., 982
Rabies, see <i>Diseases of Live Stock</i> .	
Raiffeisen banks, see <i>Credit, Agricultural</i> .	
Railway Fires Act, 1905	XII., 374 ; XV., 630
Railways : Potato weighing at stations	XI., 409
Railway transport of agricultural produce	XVII., 221, 722
Rates : Agricultural produce, correspondence	XI., 65, 513

Railways (*continued*)—

- Calves, rates for XL., 293
 Cartage charges, inclusion in XI., 305
 Conference on XII., 340; XVI., 304
 Departmental Committee XI., 79, 180; XIII., 142
 Foals, rates for XII., 179
 Fruit XII., 237
 Owners' risk... .. XI., 68; XVI., 306
 Strawberries, rates for XVI., 191
Denmark, rates in XI., 95
France, transport of fruit XVII., 502
Italy, charges in XII., 180, 629
United States, wheat XIV., 600
- Raphanus microcarpus* and *R. sativus* XIV., 696
- Raspberries: Cultivation of XIII., 497
 Cultivation in Kent XVI., 629
 Manuring XI., 626
 Pulping XI., 621
 Raspberry-canes, abnormal XIV., 311
 Spraying XI., 642
 Training and pruning XI., 522
- Rating: Orchards XII., 687
 Sporting and fishing rights XII., 285
 Woodlands XII., 174
- Rats: Destruction of XIII., 177; XV., 383, 535; XVI., 1033;
 XVII., 731
Denmark XIV., 437; XV., 295, 620
France XI., 50
- Rattle grass or yellow rattle (*Rhinanthus Crista-galli*) XIV., 374; XV., 115
- Reading, University College: Agricultural education XIII., 653
 Report of deputation on agricultural education XVII., 912
- Red clover XIII., 96, 471, 557
 Pollination of XV., 753
 Seed impurities XII., 716
- Red currant growing in Kent XVI., 633
- Red Fife wheat XIII., 469; XIV., 484; XVI., 66;
 XVII., 492, 741
- Reeds for thatching XVI., 470
- Refrigeration (see *Cold Storage*).
- Registrar of Friendly Societies, memorandum as to land banks
 and societies XVII., 485
- Remounts, army. See *Horses*.
- Rental of farms in Scotland XIV., 431
- Research, organisation of agricultural XIV., 389
- Rhodesia: Agriculture in XII., 631
 Cattle, demand for XIII., 686
 „ importation of English XV., 66
- Rhododendrons, danger of cattle poisoning from XIV., 118
- Rice meal: Pig feeding XVI., 730
- Rick thatching... .. XVI., 466
- Ridgmont Agricultural Institute, education at XIII., 653
- Ritchie, J.: Eradication of bracken XV., 844
- Roadside planting of fruit trees XI., 497; XIV., 118
- Robinson, R. L.: Coombe plantation, Keswick, a successful
 plantation at a high altitude XVII., 265, 353

- Robinson, T. R. : Devonshire cream and soft cheese making ... XIII., 210 ;
 XIV., 41
 Farm butter-making ... XIII., 577
 Fattening calves for veal ... XIV., 399
 Pig feeding for the dairy farmer ... XIV., 587
 Selection and milking of dairy cattle ... XIII., 449
- Romney Marsh Sheep ... XIV., 75
- Rooks (see also *Birds*) : Damage by ... XIII., 101, 227
 Food of ... XIII., 413 ; XVII., 133
 Protection of seed against ... XI., 544 ; XVI., 759, 925
Germany, food of rooks ... XI., 630
- Root crops (see also *Mangolds*, *Swedes*, &c.) : Feeding value of
 different kinds ... XVII., 931
 Pig-feeding ... XVI., 820
 Summary of experiments ... XV., 536 ; XVI., 239, 311 ; XVII.,
 145, 226, 309, 669
 Weeding and hoeing, effect of ... XVI., 855 ; XVII., 1019
- Roscrea co-operative bacon factory ... XVI., 101
- Roses, deformed ... XV., 384
- Rotations : Place of sugar beet in rotation ... XVII., 798
 Summaries of experiments ... XV., 707 ; XVI., 405, 489, 494 ;
 XVII., 669, 748.
- Rothamsted Experiment Station : Rainfall at, 1903-4 and
 1904-5 ... XI., 716
- Roumania : Agriculture in ... XVI., 228
 Grain trade, 1909 ... XVII., 411
 Maize, imports from ... XI., 277
 .. prohibition of exportation from ... XII., 420, 567
 Pure bred stock for ... XIV., 504
 Wheat, imports from ... XI., 539
- Rowbotham, F. J. : Basic slag for poor pasture ... XI., 414
- Royal Agricultural College, Cirencester ... XIII., 657
 Instruction in forestry ... XVI., 976
- Royal Agricultural Society : Education and Forestry Exhibition ... XI., 179
 XII., 53
- Royal Horticultural Society : Drying or evaporating fruit ... XII., 756
- Rubber seed cake ... XI., 51
- Rural depopulation, Report ... XIII., 529, 694
 Physical Deterioration Committee ... XI., 308
Sweden, diminution of peasant class ... XV., 949
United States ... XVI., 132
- Rural housing ... XIII., 694, 753
- Russell, E. J. : Composition of seaweed and its use as manure ... XVII., 458
 Maize as a fodder and silage crop ... XIV., 14
 Use of bracken as litter ... XV., 481
 Waste organic substances as manures ... XIII., 65
- Russia (see also *Poland* and *Siberia*) : Agriculture in ... XVI., 499
 Bacon, export to Great Britain ... XVII., 945
 British breeding stock in ... XI., 292
 Butter, egg and poultry trade ... XVII., 1033
 Butter from Finland, export ... XVI., 768
 Butter exports, Siberian ... XII., 234 ; XIII., 632 ; XIV., 759
 Consumption of fertilisers ... XVII., 678
 Co-operative associations ... XVII., 505, 680
 Corn cultivation, a Russian method ... XVI., 740 ; XVII., 932
 Egg trade ... XIV., 113
 Fertilisers, demand in Poland ... XIV., 310 ; XV., 219
 Flour, export to United Kingdom ... XIII., 631

Russia (*continued*)—

Grain trade of Odessa	...	...	...	...	XV., 778
Land tenure	...	...	...	...	XIII., 545
Live stock, export from Poland to United Kingdom	...	...	...	...	XVI., 329
Live stock, import of	...	...	...	...	XIV., 302
Manures, importation	...	...	...	XV., 949 ; XVII., 678, 764	
Pig breeding	...	...	...	...	XIV., 35
Potato cultivation for alcohol distillation	...	...	...	...	XVII., 945
Poultry, possible market for	...	...	...	...	XIII., 624
Red clover	...	...	...	...	XIII., 471
Rye, decreased consumption	...	...	...	...	XV., 65
Sheep in	...	...	...	XV., 65 ; XVII., 1032	
Sheep farming in the Northern Caucasus	...	...	...	...	XIII., 439
Small holdings in Poland	...	...	...	...	XVI., 499
Timber in Siberia	...	...	...	...	XVI., 145
Wheat : Cultivation	...	...	...	...	XIII., 542
Importation from	...	...	...	XI., 536 ; XII., 342 ; XIII., 349	
Wool, decline in production	...	...	...	...	XVII., 767
Rye : Manuring experiment	...	...	...	...	XVI., 490
<i>France</i> , production of hand-thrashed rye straw	...	...	...	...	XV., 926
<i>Russia</i> , decreased consumption	...	...	...	...	XV., 65
Rye-grass : In seeds mixtures	...	...	XI., 105 ; XII., 227, 385, 449		
Manuring	...	...	...	...	XVII., 403
Perennial and Italian	...	...	...	...	XI., 418
Rye straw for harness making	...	...	...	...	XVII., 131
Sainfoin seed	...	...	...	...	XIII., 147
St. Columb District Mutual Fire Insurance Company	...	...	...	...	XIII., 437
St. Louis exhibition : Insect pests exhibit	...	...	...	...	XI., 436
Sale of Food and Drugs Acts : Butter trade, report of Select Committee on	...	...	...	...	XIII., 300
Butter and Margarine Act, circular	...	...	...	...	XIV., 610
Congress for suppression of fraud in food	...	...	...	...	XVI., 221
Cream adulteration	...	...	...	...	XVI., 669
Government laboratory, analysis of samples at	XIII., 306 ; XIV., 426 ; XV., 385 ; XVI., 502				
Margarine and butter factories, number in Great Britain	...	...	...	...	XIII., 424
Milk contracts	...	...	...	...	XII., 371
Milk regulations, circular as to	...	...	...	...	XII., 45
Mixtures of butter and milk or cream, circular as to names	...	...	...	...	XV., 146, 711
Newly-calved cows, sale of milk from	...	...	...	...	XIII., 249
Preservatives in milk	...	...	...	...	XIII., 297
Prosecutions under, 1902	...	...	...	...	XI., 180
Reports by Board of Agriculture	XI., 429 ; XII., 440 ; XIII., 499 ; XIV., 623 ; XV., 444, XVI., 400 ; XVII., 220				
Salford cattle market	...	...	...	...	XV., 788
Salmon, E. S. : Apple "Scab" or "Black Spot"	...	...	...	...	XV., 182
Cherry leaf scorch	...	...	...	...	XIV., 334
Injury to foliage by Bordeaux mixture	...	...	...	...	XVII., 103
Lime-sulphur wash for use on foliage	...	...	...	...	XVII., 184
Making and application of Bordeaux mixture	...	...	...	...	XVI., 793
Sclerotinia (<i>Botrytis</i>) disease of the gooseberry	...	...	...	...	XVII., 1
Spraying experiments with a lime-sulphur summer wash	...	...	...	...	XVII., 881
Salt for barley, experiments with	...	...	...	...	XI., 39
"Sar" treatment for smut	...	...	...	...	XIII., 289
Sawyer, W. E. : Commercial growing of sugar beet in Norfolk	...	...	...	...	XVII., 729
Dressing wheat as a protection against birds	...	...	...	...	XVI., 925

- Scafford Dairy XII., 199; XVI., 816
 Schools. See *Education*.
 Schultz-Lupitz system of green manuring (see also *Manures*) ... XII., 29
 Schulze-Delitzsch Banks. See *Credit, Agricultural*.
 "Score card" XIV., 36
 For dairy inspection XV., 292
 Scotland : Poultry-keeping, improvement in XVI., 216
 Rental of farms in XIV., 431
 Scots pines, diseased on land formerly arable XIII., 115
 Financial aspect of growth XVII., 189
 Influence of locality on seed XVII., 856
 Scott, James : Insect agencies as a cause of larch canker ... XIV., 551
 Scottish Agricultural Organisation Society XIII., 629; XV., 382; XVI., 816; XVII., 138, 222
 Scouring pastures in Somerset XVII., 529
 Seaweed, analyses of XVII., 832
 Composition and use as manure XVII., 458
 Seeds : Alsike and white clover, impurities of XIII., 7
 Birds, dressing seed as a protection against ... XI., 544; XIII., 228
 XVI., 759, 925
 Bluestone and formalin, effect on germination of XII., 289
 Bowling green, varieties for XIV., 759
 Damaged, warning against use of XIV., 671
 Dodder seeds in seeds mixtures XIII., 338; XVI., 933
 Improvement of crops by selection XII., 733; XVII., 379
 Impurities in XV., 768
 International Seed-testing Conference XIV., 437
 Large and small, comparative yields of XII., 222
 Lucerne XIII., 82
 Meadow foxtail XVI., 193
 Mixtures XII., 227, 385, 449
 Pastures, experiments on seeding XII., 227, 385, 449, 761;
 XVII., 403, 666
 Red clover, impurities in XII., 716
 Swedish red clover XV., 605
 Varieties of XIII., 96, 471
 Sainfoin XIII., 147
 Sale of inferior seeds XII., 39
 Seed-growing industry in Essex XV., 6
 Testing (see also *Red Clover, &c.*) XII., 224
 Trees, influence of character of seed on XV., 125
 Trefoil XIII., 82
 Trifolium incarnatum, or crimson clover XIII., 264
 Vitality of seeds XI., 217, 279; XVII., 563
 White clover and its impurities XIII., 7
 Austria, seed control XV., 131
 Canada, sale of seeds XVII., 676
 Seed control... .. XII., 630
 Seed Growers' Association XI., 281
 Denmark, seed control XV., 769
 France, sale of seeds XVI., 325
 Germany, sale of seeds by German Agricultural Society ... XVI., 180
 Seed control XVI., 180
 Holland, seed control XVI., 376
 Poland, opening for British seeds XVII., 501
 South Africa, market for seeds, plants, and bulbs XIII., 121
 Sweden, seed control stations XVII., 922
 Svalof Society for improvement of seeds XII., 733;
 XVII., 379, 923

Seeds (*continued*)—

- Switzerland*, Zurich seed-testing station XV., 218
United States, sampling of imported XII., 223

Sewage sludge, manurial value of XIII., 72; XV., 690, 708

Sheep (see also *Live Stock* and *Diseases of Live Stock*):

- Ayrshire, disease in XIII., 291
 Breeding experiments XV., 878; XVI., 663; XVII., 756, 1014
 Cross-breeding for mutton in the North of England XIII., 513
 Effect of manures on production of mutton, see *Journal Supplement*, No. 5, January, 1911.
 Handbook of British breeds XVII., 130, 240, 663
 Feeding XII., 544; XV., 879; XVI., 660; XVII., 756, 851, 927
 Inheritance of horns and face colour XVII., 925
 Lambs, fattening XIII., 102
 Feeding with sugar foods XV., 879
 Romney Marsh sheep XIV., 75
 Shetland Islands, sheep in XIII., 558
 Short docking XIV., 375
 Summary of experiments XV., 878; XVI., 661; XVII., 757, 851, 925
 Tar branding, injury to wool caused by XVII., 624
 Washing before shearing XVI., 1
 Wool. See *Wool*.
 World's stock of cattle, sheep, and swine XVII., 1038
Falkland Islands, breeding in XVI., 498
Russia, British breeding stock in XI., 292
 Decrease in number of sheep XV., 65
 Sheep farming in the North Caucasus XIII., 439
 Sheep raising XVII., 1032
Transcauc., encouragement of importation XII., 605

Shepherds, instruction of XIII., 751

Shepton Mallet School, tests for farmers' milk XIII., 54

Shetland Islands, sheep in XIII., 558

Shoddy as manure XIII., 70

Shoeing of horses XV., 909

Shows. See *Exhibitions*.

Siberia (see also *Russia*): Butter exports XII., 234; XIII., 632; XIV., 759

Timber resources... .. XVI., 145

Wheat cultivation XIII., 549

Silage: Leaflet, notice as to XIV., 247, 375

Maize as a fodder and silage crop XIV., 14

Skelldale Dairy XII., 193

Skins, prevention of damage to XVII., 620

Slaughtering of Animals, Report of Committee XI., 298

Slaughter-house refuse as manure XIII., 69

Sloes, marketing of XV., 519

Slugs and snails. See *Insects*, &c.

Small holdings: Administration of Small Holdings Act, leaflet XV., 542

Administration of Allotments Acts, leaflet XV., 628

Associations for the formation of XV., 281

Cheese making for small holders XVI., 89

Committee XII., 118; XIII., 597

Compensation for termination of tenancy XVII., 496

Small holdings (*continued*)—

Compulsory hiring and purchase of land, circular ...	XV., 223, 875
Co-operation	XV., 579; XVI., 353; XVII., 395
Creation of small holdings under the Act of 1907	XV., 1
Crown lands, establishment on	XIV., 278; XV., 608
Fruit bottling for small holders	XVII., 194
Demand for	XIII., 535
Hampshire, small holdings in	XV., 83
Herefordshire, small holdings in	XV., 327
How to obtain an allotment or small holding, leaflet	XV., 463
Indebtedness of peasant class on the Continent	XIV., 559
Lancashire, small holdings in	XV., 561
Mere Small Holdings Association	XVI., 360
Model allotments... ..	XI., 351
Model rules for local authorities	XV., 60
Northern Allotment Society	XII., 202
Number of applicants, return	XVII., 321
Prizes in Ireland for	XIV., 49
Regulations under Small Holdings Act	XV., 142
Repayment of expenses under Small Holdings Act	XV., 709; XVI., 666
Report of Commissioners ... 1907-8, XV., 442; 1908, XVI., 575, 658; 1909, XVII., 302, 395	
Rural housing	XIII., 534, 694
Small Holdings and Allotments Acts, circulars, etc.	XIII., 752; XIV., 433, 597, 754; XV., 141, 224; XVII., 322
Small Holdings Societies, return as to number	XVII., 485
Strawberry growing on	XVI., 187
Surrey, small holdings in	XVII., 9
Tomato cultivation for allotment holders	XVII., 836
Utility rabbit breeding	XVII., 982
Valuation of land, circular	XV., 386
Water supply of	XVII., 289
<i>Denmark</i> , allotments for agricultural labourers	XIII., 438
School for allotment holders	XII., 628
Small holdings in	XVI., 854
State aid	XVII., 570
<i>France</i> , loans to small holders... ..	XVII., 848
Provision of cottages and allotments	XV., 863
<i>Germany</i> , formation of small holdings	XIII., 35
<i>Greece</i> , small holdings in	XVII., 414
<i>Norway</i> , workmen's Small Holdings and Dwellings Bank ...	XVI., 945
<i>Poland</i> , small holdings in	XVI., 499
<i>Sweden</i> , assistance to small holders	XV., 220
Loans for small holdings	XVII., 924
Premiums for small farms	XVII., 923

Snails. See *Insects*, &c.

Snell, W. F. : Feeding fowls for eggs in winter XII., 468

Society Islands : Phosphate deposits in XV., 303

Soil : Absorption by XVI., 69

Acidity, cure of XVII., 751

Analyses, summary of reports on XV., 960

Conservation of the fertility of the soil XVII., 114

Fen soil, effect of fertilisers on XVII., 750

Influence of bacteria on phosphoric acid in the soil XVII., 1020

Inoculation XI., 348, 669, 725; XII., 282, 641, 759;
XVI., 494; XVII., 578, 586, 750

Maps published by Geological Survey XIV., 53

Scouring lands of Somerset XVII., 529

Sterilisation XII., 356; XIII., 101; XVI., 1032

United States, soil surveys XV., 48

- Solanum commersonii*... .. XI., 412 ; XIII., 49 ; XIV., 86
- Soldiers, employment of, in harvesting XI., 307
- Sonchus arvensis*, Perennial or corn sow thistle XVII., 909
- Sonchus oleraceus*, annual sow thistle XVI., 208
- Sorrels XVI., 382
- South Africa (see also *Cape Colony*, *Natal*, etc.):
- Agriculture in XVI., 744
- Dodder in XIII., 337
- Forestry school XIII., 373
- Grading of maize XV., 66
- Market for seeds, plants, etc. XIII., 121
- South Australia: Export of wheat XV., 948
- Use of artificial manures XV., 535
- South-Eastern Agricultural College, Wye: Education at XIII., 655
- Sow thistle, annual (*Sonchus oleraceus*) XVI., 208
- ,, perennial (*Sonchus arvensis*) XVII., 909
- Soy beans XVI., 128, 229, 735, 860, 940 ; XVII., 67,
410, 502, 688
- Feeding trials XVI., 735, 940 ; XVII., 752, 927
- Spain: Agency for sale of fertilisers, machinery and live stock... .. XVII., 325
- Chemical manures for XII., 376
- Duties on wheat and forage XII., 568
- Fodder, importation of XIII., 376
- Live stock XV., 65
- Spangle galls eaten by birds XV., 141
- Sparrow clubs... .. XIV., 182
- Sparrows XIII., 665
- Spartina* grasses for mud flats XIV., 247, 695
- Speir, John: Construction of cow-houses... .. XVI., 533
- Cost of food in the production of milk XIV., 321
- Spergula arvensis* (Spurrey) XIV., 439 ; XV., 957 ; XVI., 854
- Sphaerotheca mors-uvae*. See *Fungi*, *American Gooseberry Mildew*.
- Sporting and fishing rights, rating of XII., 285
- Spraying (see also *Fungi*, *Insects*, *Charlock*): Apple trees: cost of
- spraying XVI., 496
- In New York State XII., 560
- Bordeaux mixture XI., 285, 641
- Adulteration of sulphate of copper XII., 542 ; XVI., 477
- Composition XVI., 246
- Experiments at Woburn XV., 55
- Injury to foliage by XVII., 103
- Making and application XVI., 793, 936
- Plants, effect on XII., 413
- Caustic alkali wash XI., 588, 645
- Copper sulphate solutions, effect on plants XII., 413
- Disbudding by birds, prevention of XIII., 668
- Emulsions XV., 56
- Fruit trees and bushes XI., 641
- Hot water as an insecticide XVI., 157
- Hop washing XVI., 620, 897, 937
- Lime-sulphur caustic-soda spray XVII., 1010
- Lime-sulphur wash XIII., 497 ; XV., 522 ; XVI., 408 ; XVII.,
148, 184, 212, 881
- Machines... .. XII., 8
- Mixture for mildew XV., 357
- Mixtures XII., 660
- Poisons and Pharmacy Act, 1908, caution to sellers of insecticides, etc. XVI., 146

- Sweden : Agricultural Congress XIII., 184
 Bacon curing association XVII., 590
 Cattle breeding and dairy farming XVII., 67
 Dairy farming XI., 426
 Fertilisers, consumption of XVII., 767
 Forestry legislation XI., 49
 Hay, method of drying XIV., 417
 Improvement of agriculture in XVII., 922
 Live stock, encouragement of breeding ... XI., 421 ; XVII., 923
 Insurance XV., 42
 Margarine industry XV., 458
 „ law XIII., 170
 Milk, cost of food in production of XIV., 332
 Milk-testing societies XII., 608 ; XVII., 924
 Moorland reclamation XIV., 746 ; XVII., 210, 923
 Peasant class, diminution of XV., 949
 Premiums for small farms XVII., 923
 Small holders, assistance to XV., 220
 Svalof Society for improvement of seeds XII., 733 ; XVII., 379, 923
 Tuberculosis, suppression of XV., 498
- Swedes :
 Composition of XV., 538 ; XVII., 751
 Defective growth XV., 510
 Distance apart of plants, effect on yield XV., 539
 Manuring XI., 219 ; XII., 158 ; XV., 539 ; XVI., 242, 311 ;
 XVII., 147, 227, 310, 576, 665
 Summaries of experiments ... XV., 539 ; XVI., 242, 311 ; XVII.,
 147, 226, 309, 576, 665, 927
 Variety, experiments ... XIII., 282 ; XV., 540 ; XVI., 242, 313, 492 ;
 XVII., 226, 309, 576
- Swedish red clover XV., 605
- Swine. See *Pigs*.
- Switzerland :
 Forestry law XVI., 1019
 Insurance of live stock XV., 40
 Live stock, improvement in ... XIV., 303 ; XVI., 851
 Meadow saffron XV., 303
 State assistance to agriculture XV., 864
 Zürich seed-testing station XV., 218
- Syria, agriculture in XVI., 129
- Tannery refuse as manure XIII., 71
- Tanning industry in United States XIV., 695
- Tartarian oats, black XVI., 154
- “Teart” lands of Somerset XVII., 529
- Telephones in rural districts XII., 693 ; XIII., 226, 747
- Thatching XVI., 463
- Theobald, F. V. : Grease banding of fruit trees ... XVII., 542
 Insect and allied pests of the hop ... XVI., 555, 617
 Orchard and bush fruit pests in 1906 ... XIII., 705
 Slugs and snails... ... XI., 594, 650
- Thiselton-Dyer, Sir W. T. : Supposed degeneracy of the potato XV., 30
- Thistles XII., 705 ; XVI., 855 ; XVII., 907, 1019
- Threshing of barley XII., 215
- Tied cottages XIII., 753

- Timber (see also *Forestry*) : Preservation XIII., 339
 Seasoning fencing material XII., 77
- Tithe Acts, Reports on proceedings 1903, XI., 115 ; 1904, XII., 183 ;
 1906, XIV., 170 ; 1907, XV., 303 ; 1908, XVI., 309 ; 1909, XVII., 241
- Tithe commutation XVI., 310
- Tobacco : Cultivation in Ireland XV., 511 ; XVI., 925
 Cultivation in Scotland... .. XV., 511
 Regulations as to growth in United Kingdom XVII., 943
- Tomatoes : Cultivation for allotment holders XVII., 836
 Defective growth XIV., 622 ; XV., 510
 Notes on growing XII., 356
 Pollination of XV., 517
 Tomato ketchup, manufacture without preservatives XVI., 156
- Town refuse as manure XIII., 71 ; XIV., 503
- Transvaal : Agricultural credit banks in XIV., 690 ; XV., 776
 British cattle for XI., 41
 Live stock, demand for XII., 166, 605
 Weeds, eradication of XVI., 673
- Trap lanterns or insect catchers XII., 164
- Trees. See *Forestry*.
- Trefoil seed XIII., 82
- Trifolium hybridum* (Alsike clover)... .. XIII., 12
- Trifolium incarnatum* (Italian or crimson clover) XIII., 264
- Trifolium repens* (White clover) XIII., 7
- Trifolium pratense* (Red clover) XIII., 471, 557
- Triticum durum* (macaroni wheat) XI., 208, 543 ; XII., 694
- Truck Acts : Supply of cider in relation to XVI., 42
- Tuberculosis : Circular letter XVI., 232
 Compensation Bill, report of Select Committee XI., 297
 New test for tuberculosis in cattle XVII., 1015
 Pigs XI., 296 ; XII., 747
 Reports of Royal Commission XI., 161 ; XIII., 740 ; XV., 845
 Suppression on the Continent XV., 494
 Tuberculin test XV., 960
Canada, tuberculin test in XI., 162
Denmark, association for prevention of tuberculosis... .. XIV., 437
 Law in XI., 42
United States, suppression in New York State XV., 765
- "Tulip root" in oats XIV., 225
- Tunis, export of grain to France XI., 148
- Turin International Exhibition : Classification XVII., 327
 Horticultural exhibition XVII., 762
 Live stock shows... .. XVII., 1032
- Turkey : Agriculture in the province of Damascus XIV., 760
 Barley, prohibition of export XIV., 632
 Progress of agriculture in Adana XVII., 1033
- Turkeys : Breeding and rearing XIII., 559 ; XV., 340
 Fattening experiments XI., 385, 495
- Turnips : "Bolting" XIV., 630
 Composition of XV., 538
 Manuring XII., 158 ; XIV., 28 ; XV., 541 ; XVI., 244,
 312 ; XVII., 146, 311, 665
 Pig feeding XVI., 820

Turnips (*continued*)—

Quality of	XIII., 282
Storing	XI., 398
Summaries of experiments	XV., 541; XVI., 244, 312; XVII., 146, 311, 665
Variety trials	XV., 541; XVI., 313, 492; XVII., 226, 665

Tussilago Farfara (Coltsfoot) XIII., 735

Twitch or couch grass... .. XVI., 279

Uckfield Agricultural College, education at XIII., 656

Udale, J. : Fruit bottling XVII., 977

United States : Agricultural education (see also *Journal*

Supplement, January, 1908)...	XVII., 912
Agricultural experimental work	XIII., 401
Agricultural exports, decrease in	XVII., 154
Agriculture in	XVI., 767; XVII., 328
Agriculture and horticulture in Oregon and adjoining States	XVI., 768
Apple growing	XII., 557
Change in methods of farming	XVII., 849
Cheese, cold curing of	XIII., 426
Colorado fruit industry	XV., 519
Conservation of natural resources	XV., 944; XVII., 218
Co-operative demonstration work	XVI., 135
Cropping and manuring, a system of	XI., 203
Dairy factories	XI., 367
Dairy inspection	XV., 292
Demonstration farms	XV., 534
Department of Agriculture	XV., 132
Budget	XI., 183
Diseases of animals, 1903-4	XI., 163
Dodder, prevalence	XIII., 337
Dry farming	XVII., 918
Education : Report on agricultural	XIV., 563, 624
General Education Board	XIV., 117
Eggs, method of sale	XVII., 991
Experiment stations endowment	XIV., 51
Farm animals, number in 1904	XI., 41
Farm labour and wages	XI., 98
Farm products, advance in prices	XVII., 397
Cost of producing	XIII., 679
Farmers' Institutes (see also <i>Journal</i> Supplement, January, 1908)	XIII., 404
Food standards	XI., 31
Foot-and-mouth disease... ..	XV., 697
Forestry in the New England States	XVI., 500
Fruit pests, efforts to exterminate	XVII., 328
Grain freight rates	XI., 147; XIV., 600
Grain, grading of	XV., 50
Grain shipments from New York	XV., 381
Hides, disinfection of imported	XIV., 438; XV., 66, 385; XVI., 764; XVII., 499
Hop cultivation	XV., 67; XVI., 145, 328, 849, 1013; XVII., 328
Insects : Depredations in North American forests	XVII., 50
Injurious insects and foul brood, laws	XV., 456
Introduction of beneficial	XII., 623
Irrigation in California	XVI., 327
Lectures to farmers	XVI., 328; XVII., 52
Live stock and meat : Cost of transporting	XVI., 1015
Inspection	XI., 163

United States (*continued*)—

Live stock shows, value to students	XIII., 103
Macaroni wheat	XI., 208, 543; XII., 694
Method of developing agriculture	XVII., 52
Milk : Certified, production of	XV., 384
Testing in Wisconsin	XII., 233
Tests and records	XIV., 91, 492
New crops in	XIII., 405
Phosphates, supply of	XV., 621
Poultry industry	XIII., 490
Rabies	XIV., 502; XV., 382
Rural conditions, Report of Commission	XVI., 132
Seeds, sampling of imported	XII., 223
Vitality of	XI., 279
Soil inoculation	XI., 671, 725; XII., 282, 641, 759
Soil surveys	XV., 48
Stallions, registration in Wisconsin	XIII., 685
Tanning industry	XIV., 695
Timber, consumption	XV., 220
Supply	XVI., 1020
Tuberculosis in New York State	XV., 765
Wheat, consumption	XV., 221
Exports to Great Britain	XI., 534; XIII., 349
Wheat, barley, and hop growing in California	XV., 67; XVI., 327

University College of North Wales. See *Bangor*.

<i>Urtica dioica</i> and <i>U. urens</i> (stinging nettles)	XVII., 986
Uruguay : Dairy industry and agriculture	XVI., 768
Opening for British seed potatoes	XVII., 679, 861
Wool production	XII., 567
Utility Poultry Club : Egg-laying competitions	XVI., 108
Insurance of poultry	XI., 44

Veal : Fattening calves for	XIII., 238, 727; XIV., 399
Production and consumption	XI., 233
Vegetables : Production in Germany, France, and Holland	XV., 414
Trade of London	XVII., 340
Venezuela : Probable demand for pedigree cattle	XVI., 677
Ventilation of cow-houses	XVI., 550, 755
Foultry houses	XII., 438
Vermín. See <i>Mice</i> , <i>Rats</i> , and <i>Voles</i> .	
Veterinary inspectors, syllabus of examination	XIV., 174
Victoria : Horse-breeding, State aid	XIII., 121
Stallions, registration of	XV., 291
Village banks in England. See <i>Credit</i> .	
Village water supplies	XIV., 525; XV., 350
Vines : Cultivation of	XII., 562
Machinery for cultivation of	XVI., 327
Vitality of seeds	XI., 217, 279
Voles and mice	XIV., 182; XV., 656

Wages. See *Labour*.

Wakinslaw, Joseph W. : Northern Allotment Society	XII., 202
Wale, Bernard N. : Financial aspect of sheep-washing	XVI., 1

- Walker-Tisdale, C. W. : Devonshire cream and soft cheese-making ... XIII., 210 ; XIV., 41
 Farm butter-making ... XIII., 577
 Fattening calves for veal ... XIV., 399
 Pig feeding for the dairy farmer ... XIV., 587
 Selection and milking of dairy cattle ... XIII., 449
- Walkey, C. E. J. : Marketing of poultry ... XIII., 395
- Walls, stone, as fences ... XII., 77
- Walnut crop, failure of ... XIV., 375
- Warble fly. See *Insects*.
- Wart disease or black scab of potatoes. See *Fungi*.
- Wasps ... XIV., 157
- Waste lands, planting, on the Continent ... XV., 858, 942
- Waste organic substances as manure ... XIII., 65
- Watercress cultivation ... XV., 89, 826
 Injury to beds by algae ... XVII., 988
- Water-glass, preservation of eggs in ... XIII., 688 ; XV., 880
- Water supply : Afforestation of catchment areas ... XI., 468 ; XII., 614 ; XVI., 265
 Cleansing of water-courses ... XII., 214
 Dewponds ... XIII., 181 ; XIV., 498, 630 ; XVI., 61
 Hampshire, water supply of ... XVII., 407
 Hints on ... XII., 144
 Small holdings, water supply ... XVII., 289
 Streams, pollution by sheep dipping ... XV., 619
 Villages, water supply ... XIV., 525 ; XV., 350
 Wind pumps ... XVI., 904
- Watt, A. Lindsay ; Coombe Plantation, Keswick, a successful plantation at a high altitude ... XVII., 265, 353
- Waugh, James : Narcissus cultivation ... XV., 897
- Weather (see also *Meteorology*) : Flowering of fruit-trees ... XIV., 744
 Harvest forecasts ... XII., 120 ; XIII., 182 ; XIV., 180 ; XV., 219, 535 ; XVI., 149 ; XVII., 407
 Method of treating meteorological statistics ... XIV., 1
 Seeds, effect of weather on vitality of ... XI., 217, 279
 Germany, forecasts in Prussia ... XIII., 183
- Weeds (see also *Seeds*) :
 Bracken, eradication of ... XIII., 378 ; XV., 844
 Broom-rape (*Orobanché*) ... XV., 176
 Buttercups in pastures ... XIV., 182
 Charlock ... XIV., 568
 Cost of spraying ... XIII., 361
 Destruction of ... XI., 155 ; XV., 776, 956 ; XVI., 761, 854 ; XVII., 1018, 1019
 Coltsfoot (*Tussilago Farfara*) ... XIII., 735
 Corn cockle (*Agrostemma Githago*) ... XVII., 38
 Corn marigold (*Chrysanthemum segetum*) ... XIV., 536
 Couch or twitch ... XVI., 279
 Cow parsley (*Anthriscus sylvestris*) ... XIV., 183
Crepis taraxacifolia ... XV., 303
 Destruction by surface cultivation ... XI., 193
 Docks and sorrels ... XVI., 382
 Dodder ... XIII., 87, 331 ; XV., 280 ; XVI., 209, 933
 Dyers' greenweed (*Genista tinctoria*) ... XIV., 375
 Effect on root crop ... XV., 956

Weeds (*continued*)—

- Goosefoot (*Chenopodium album*, L.) ... XVI., 207
 Impurities in seeds ... XII., 716 ; XIII., 7, 82, 147, 264 ;
 XVI., 933
 Knapweed (*Centaurea nigra*) ... XIV., 311
 Marsh horse-tail ... XIII., 378
 Meadow saffron (*Colchicum autumnale*) ... XIV., 183 ; XV., 44, 303
 Nettles ... XIV., 311 ; XVII., 986
Persicaria ... XIV., 504
 Poppy ... XVI., 26
Raphanus microcarpus and *R. sativus* ... XIV., 696
 Root crops, effect of weeding and hoeing ... XVI., 855 ; XVII., 1018
Rumex obtusifolius, etc. (Docks and Sorrels) ... XVI., 382
 Sorrel dock, or sheep's sorrel (*Rumex acetosella*) ... XIV., 247 ;
 XVI., 382
 Spurrey (*Spergula arvensis*) ... XIV., 439 ; XV., 957 ; XVI., 854
 Sow thistle, annual (*Sonchus oleraceus*) ... XVI., 208
 Perennial (*Sonchus arvensis*) ... XVII., 909
 Summaries of experiments ... XV., 956 ; XVI., 854 ; XVII., 1018
 Thistles ... XII., 705 ; XVI., 855 ; XVII., 907, 1019
 Wild onion, or crow garlic (*Allium vineale*) ... XIV., 374
 Yellow rattle, or rattle grass (*Rhinanthus Crista-galli*) ... XIV., 374 ;
 XV., 115
France, dodder regulations ... XII., 742
Transvaal, eradication of weeds ... XVI., 673
 Weighing of Cattle Order of 1905 ... XI., 695
 Wenlock Farmers' Club records ... XI., 53
 Wensleydale Pure Milk Society ... XVI., 811
 Western Australia : Agricultural credit bank ... XIV., 691
 Wheat cultivation ... XV., 616
 Western Counties Agricultural Co-operative Association ... XV., 920
 West Norfolk Farmers' Manure Company ... XV., 920
 West of Scotland Agricultural College : Forestry instruction ... XVI., 979
 Weston, T. J. : Advice to beginners in bee-keeping ... XII., 78
 Preparation of honey for market ... XI., 721
 Wet grains, weighing of ... XI., 682
 For feeding ... XIV., 87 ; XVI., 753
 Wheat (see also *Journal* Supplement, No. 4, June, 1910):
 Continuous growth ... XV., 459 ; XVI., 150 ; XVII., 59, 489
 Development of grain ... XVII., 60
 Dressing seed as a protection against birds ... XI., 544 ;
 XIII., 228 ; XVI., 759, 925
 Formalin, effect on seed wheat. See *Formalin*.
 Improvement of, experiments ... XI., 206, 321 ; XII., 156, 471 ;
 XIII., 469 ; XIV., 484 ; XV., 460 ;
 XVI., 65 ; XVII., 59, 741
 Influence of magnesia on ... XVII., 749
 Pig feeding ... XVI., 726
 Red Fife ... XIII., 469 ; XIV., 484 ; XVI., 66 ; XVII., 492, 741
 Storage, effect of ... XVI., 245
 Summaries of experiments ... XV., 459 ; XVI., 65, 150, 489 ;
 XVII., 59, 489
 Varieties ... XIII., 467 ; XV., 459 ; XVI., 65 ; XVII., 60, 489
 Winter and the wheat crop ... XI., 716
 Argentina, cultivation in ... XI., 342 ; XV., 586 ; XVI., 300, 706
 Imports ... XI., 539 ; XIII., 349
 Canada, future production, estimates of ... XII., 345
 Varieties of, testing ... XI., 206
 Egypt, cultivation in ... XV., 284

Wheat (*continued*) |

- France*, admission of Tunisian wheat into XI., 148
Hungary, wheat growing XVII., 242
India, elevators XVI., 212
Manchuria, possibilities of production in XVII., 764
Persia, report on cultivation in XVII., 412
Russia, cultivation in XIII., 542
South Australia, export... .. XV., 948
Spain, import duties XII., 568
United States, consumption XV., 221
 Cultivation in California XVI., 327
 Exports XI., 534; XIII., 349
 Freight charges XI., 147; XIV., 600
 Macaroni wheat in XI., 208, 543; XII., 694
 Whey for pig-feeding... .. XVI., 828
 White and alsike clover seed and their impurities XIII., 7
 Whitehead, Charles : Fruit prospects in Kent XI., 238
 Wigtownshire Milk Record Association XIV., 329
 Wilkins, Mrs. Roland (Miss L. Jebb) : Co-operation in the
 tenure of small holdings XVI., 353
 Creation of small holdings XV., 1
 Williams, W. Phillpotts : Theory of the four Stallions—types of
 stallion required for breeding horses for the army XVI., 992
 Willows : For cricket bats XIV., 461
 Osier cultivation XIV., 47; XV., 126, 766
 Wilson, P. E. : Utility rabbit breeding for small holders XVII., 982
 Winchcombe Co-operative Auction Mart XIII., 629
 Wind power XVI., 904
 Winter washing of fruit trees XI., 588, 645; XIII., 623;
 XIV., 682; XVI., 832
 Wisbech, production of fruit crops in the neighbourhood of XV., 777
 Witches' broom of the silver fir XI., 242
 Wood. See *Timber* and *Forestry*.
 Woodlands, rating of... .. XII., 174; XVII., 236
 Woodpecker, injury to trees by XI., 693
 Wood pigeons, food habits of XIV., 686
 Woods. See *Forestry*.
 Woods and Forests Commissioners. See also *Forestry*. Affores-
 tation of the Inverliever estate XV., 620; XVI., 219, 980;
 XVII., 308
 Alice Holt Woods XII., 358; XVI., 981
 Forest of Dean ... XIII., 567, 647; XIV., 694; XV., 609; XVI., 971
 Small holdings on Crown lands... .. XIV., 278; XV., 608
 Wool : Preparation for market XIII., 293; XIV., 96, 241
 Prevention of damage to XVII., 620
 Production in Great Britain XIV., 474
 Rise in price XIV., 491
 Sales, 1908 XV., 470
 Sheep washing before shearing XVI., 1
 Vegetable matter in XII., 303
 Argentina, production XVII., 766
 New Zealand, prospects in XVII., 416
 Russia, decline in production XVII., 767

Workmens' Compensation Act, 1900, Report of Committee	...	...	...	...	...	...	XI., 373
Workmen's Compensation Act, 1906	...	...	...	...	...	...	XIV., 285
Wright, W. P. : Modern strawberry growing	...	...	...	...	...	...	XIV., 193
Potato leaf curl	...	...	...	...	...	...	XIV., 466
Pruning fruit trees	...	...	...	...	...	...	XV., 22
,, newly-planted fruit trees	...	...	...	...	...	...	XIII., 660
,, of the peach	...	...	...	...	...	...	XIV., 661
,, young fruit trees	...	...	...	...	...	...	XIV., 705
Wye College.	See <i>South-Eastern Agricultural College</i> .						
Yellow rattle (<i>Rhinanthus Cristu-galli</i>)	...	...	...	...	...	...	XIV., 374 ; XV., 115
Yorkshire College.	See <i>Leeds University</i> .						
Yoxall Co-operative Dairy Society	...	...	...	...	...	...	XVI., 815
Zurich seed-testing station	...	...	...	...	...	...	XV., 218
Zuyder Zee, draining of	...	...	...	...	...	...	XIV., 439

PUBLICATIONS OF THE BOARD OF AGRICULTURE AND FISHERIES.

Annual Reports and Other Publications.—A complete list of publications can be obtained on application to the Secretary, Board of Agriculture and Fisheries, 4 Whitehall Place, London, S.W.

Leaflets.—The Leaflets, of which 250 have been issued, deal in a practical manner with the cultivation of crops and fruit trees, the use of manures and feeding stuffs, dairying, and the management of live stock, poultry, and bees.

The diseases and pests attacking animals, crops, fruit and forest trees are also treated exhaustively.

A copy of any one of the leaflets can be obtained on application to the Secretary of the Board of Agriculture and Fisheries, Whitehall Place, London, S.W. No charge is made, and letters of application need not be stamped.

Bound Volumes of Leaflets.—The leaflets of the Board are offered for sale in two forms: (1) Leaflets Nos. 1-100, and Leaflets Nos. 101-200, bound in stiff boards in single volumes, price sixpence each volume; (2) Leaflets 1-200 bound in paper covers in twelve volumes at one penny each, post free.

The money must be sent with the order, but the book is sent post free, and no more than the actual price of the books ordered need be sent. In remitting money in payment, amounts of sixpence and upwards should be sent in the form of postal orders or cheques.

The bound volumes of leaflets can be obtained *only* at the office of the Board of Agriculture and Fisheries, Whitehall Place.

The Journal of the Board of Agriculture is issued on the 15th of each month, and may be ordered, through any bookseller or railway bookstall, from the Board of Agriculture; or it will be forwarded direct from the Board of Agriculture and Fisheries, 4 Whitehall Place, London, S.W., at the following rates:—Three months, 1s.; six months, 2s.; twelve months, 4s.

All communications relating to advertisements should be addressed to the Sole Agents, MESSRS. LAUGHTON & Co., LTD., 3 Wellington Street, Strand, W.C.

A Return of Market Prices of Fat and Store Stock, Dairy Cattle, Meat, Provisions, Fruit, Vegetables, Hay and Straw at certain representative Markets in Great Britain is issued *every Saturday* containing Reports of Markets up to the preceding Thursday.

Price *One Penny* per copy, to be obtained either directly or through any bookseller, from WYMAN & SONS, LTD., Fetter Lane, E.C.; OLIVER & BOYD, Edinburgh; or E. PONSONBY, 116, Grafton Street, Dublin.

A copy will be sent regularly as issued, by the publishers, for three, six, or twelve months, on payment of a subscription, including postage, at the rate of 6s. 6d. per annum.









